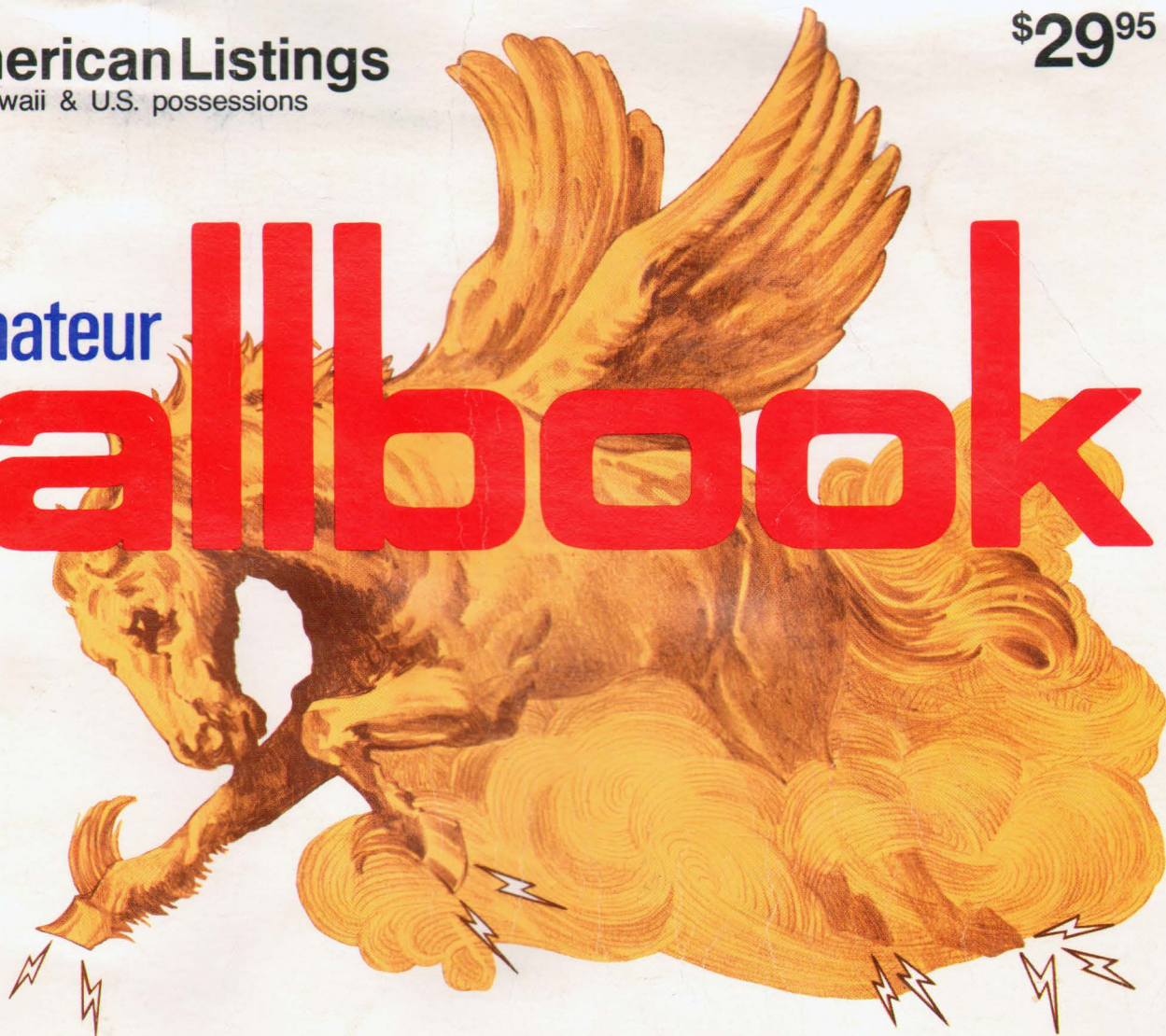


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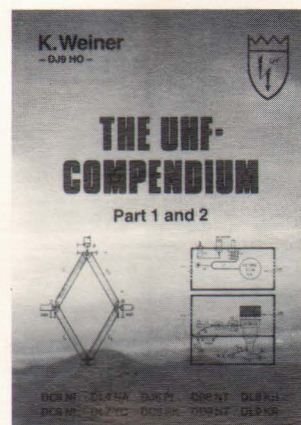
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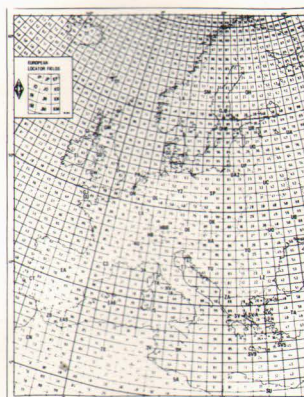


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AMA-AOZ	Spain	ONA-OTZ	Belgium	ZAA-ZAZ	Abnania	9EA-9FZ	Ethiopia
APA-ASZ	Pakistan	OUA-OZZ	Denmark	ZBA-ZJZ	Great Britain & No. Ireland	9GA-9GZ	Ghana
ATA-AWZ	India			ZKA-ZMZ	New Zealand	9HA-9HZ	Malta
AXA-AXZ	Australia	PAA-PIZ	Netherlands	ZNA-ZOZ	Great Britain & No. Ireland	9IA-9JZ	Zambia
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		PPA-PYZ	Brazil	ZRA-ZUZ	South Africa-Namibia	9MA-9MZ	Malaysia
		PZA-PZZ	Surinam	ZVA-ZZZ	Brazil	9NA-9NZ	Nepal
BAA-BZZ	China	QAA-QZZ	Q Signals			9OA-9TZ	Zaire
CAA-CEZ	Chile	RAA-REZ	Commonwealth of Independent States	2AA-2ZZ	Great Britain & No. Ireland	9UA-9UZ	Burundi
CFA-CKZ	Canada	RFA-RFZ	Georgia	3AA-3AZ	Monaco	9VA-9VZ	Singapore
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CNA-CNZ	Morocco			3CA-3CZ	Equatorial Guinea	9XA-9XZ	Rwanda
COA-COZ	Cuba			3DA-3DM	Swaziland	9YA-9ZZ	Trinidad and Tobago
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COA-CUZ	Portugal	SNA-SRZ	Poland	3EA-3FZ	Panama	A3A-A3Z	Tonga
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DSA-DTZ	South Korea	TDA-TDZ	Guatemala	3YA-3YZ	Norway	A9A-A9Z	Bahrain
DUA-DZZ	Philippines	TEA-TEZ	Costa Rica	3ZA-3ZZ	Poland		
EAA-EHZ	Spain	TFA-TFZ	Iceland	4AA-4CZ	Mexico	C2A-C2Z	Nauru
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FAA-FZZ	France	TTA-TTZ	Chad	4ZA-4ZZ	Israel	E2A-E2Z	Thailand
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HAA-HAZ	Hungary	TVA-TXZ	France	5AA-5AZ	Libya	H3A-H3Z	Panama
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HLA-HLZ	Rep. of Korea (South)			5TA-5TZ	Mauritania	J6A-J6Z	St. Lucia
HMA-HMZ	Dem. People's Rep. of Korea (North)	VAA-VGZ	Canada	5UA-5UZ	Niger	J7A-J7Z	Dominica
HNA-HNZ	Iraq	VHA-VNz	Australia	5VA-5VZ	Togo	J8A-J8Z	St. Vincent and the Grenadines
HOA-HPZ	Panama	VOA-VOZ	Canada	5WA-5WZ	Western Samoa		
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HSA-HSZ	Thailand	VTA-VWZ	India	5YA-5ZZ	Kenya	P2A-P2Z	Papua New Guinea
HTA-HTZ	Nicaragua	VXA-VYZ	Canada	6AA-6BZ	Egypt	P3A-P3Z	Cyprus
HUA-HUZ	El Salvador	VZA-VZZ	Australia	6CA-6CZ	Syria	P4A-P4Z	Aruba
HVA-HVZ	Vatican City State			6DA-6JZ	Mexico	P5A-P9Z	Dem. People's Rep. of Korea (North)
HWA-HYZ	France	WAA-WZZ	United States of America	6KA-6NZ	Rep. of Korea (South)		
HZA-HZZ	Saudi Arabia	XAA-XIZ	Mexico	6MA-6OZ	Somalia	S2A-S3Z	Bangladesh
IAA-IZZ	Italy	XJA-XOZ	Canada	6PA-6SZ	Pakistan	S6A-S6Z	Singapore
JAA-JSZ	Japan	XPA-XPZ	Denmark	6TA-6UZ	Sudan	S7A-S7Z	Seychelles
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JWA-JXZ	Norway	XSA-XSZ	China	6XA-6XZ	Madagascar		
JYA-JYZ	Jordan	XTA-XTZ	Voltaic Republic	6YA-6YZ	Jamaica	T2A-T2Z	Tuvalu
JZA-JZZ	Indonesia	XUA-XUZ	Cambodia	6ZA-6ZZ	Liberia	T3A-T3Z	Kiribati
KAA-KZZ	United States of America	XVA-XVZ	Vietnam	7AA-7IZ	Indonesia	T4A-T4Z	Cuba
LAA-LNZ	Norway	XWA-XWZ	Laos	7JA-7NZ	Japan	T5A-T5Z	Somalia
LOA-LWZ	Argentina	XXA-XXZ	Portugal	7OA-7OZ	South Yemen	T6A-T6Z	Afghanistan
LXA-LXZ	Luxembourg	XYA-XZZ	Myanmar	7PA-7PZ	Lesotho	T7A-T7Z	San Marino
LYA-LYZ	Lithuania	YAA-YAZ	Afghanistan	7QA-7QZ	Malawi	T9A-T9Z	Bosnia-Herzegovina
LZA-LZZ	Bulgaria	YBA-YHZ	Indonesia	7RA-7RZ	Algeria		
MAA-MZZ	Great Britain & No. Ireland	YIA-YIZ	Iraq	7SA-7SZ	Sweden	V2A-V2Z	Antigua
NAA-NZZ	United States of America	YJA-YJZ	Vanuatu	7TA-7TZ	Algeria	V3A-V3Z	Belize
OAA-OCZ	Peru	YKA-YKZ	Syria	8AA-8IZ	Indonesia	V4A-V4Z	St. Kitts and Nevis
ODA-ODZ	Lebanon	YLA-YLZ	Latvia	8JA-8NZ	Japan	V5A-V5Z	Namibia
OEA-OEZ	Austria	YMA-YMZ	Turkey	8OA-8OZ	Botswana	V6A-V6Z	Fed. States of Micronesia
OFA-OJZ	Finland	YNA-YNZ	Nicaragua	8PA-8PZ	Barbados	V7A-V7Z	Marshall Is.
		YOA-YRZ	Romania	8QA-8QZ	Maldives Is.	V8A-V8Z	Brunei
		YSA-YSZ	El Salvador	8RA-8RZ	Guyana		
		YTA-YUZ	Yugoslavia	8SA-8SZ	Sweden	Y2A-Y9Z	Federal Republic of Germany
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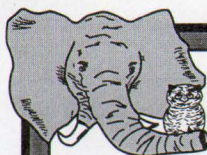
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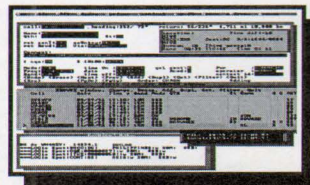
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CENSUS OF AMATEUR RADIO LICENSES* in the U.S.A.

by classes, within states and call areas

Call Area	State	Novice	Technician	General	Advanced	Extra	Club	Military	State Totals	Percent of Licenses
1	CT	1,730	2,434	1,875	1,481	1,017	46	1	8,584	1.40%
	MA	2,348	4,660	3,237	2,621	1,856	78	3	14,803	2.41
	ME	588	1,176	964	629	424	10	1	3,792	.62
	NH	599	1,395	927	674	565	12	1	4,173	.68
	RI	445	785	511	337	284	19	1	2,382	.39
	VT	239	647	408	291	204	9		1,798	.29
		5,949	11,097	7,922	6,033	4,350	174	7	35,532	5.78
2	GU	172	91	49	43	38			393	.06
	NJ	2,780	5,117	3,375	3,054	1,953	147	7	16,443	2.67
	NY	7,137	10,662	6,635	5,498	3,407	164	4	33,507	5.45
	VI	43	99	81	51	40			314	.05
	AE	129	187	119	86	40			561	.09
		10,261	16,156	10,259	8,732	5,478	311	11	51,208	8.33
3	DC	88	106	127	95	84	2	3	505	.08
	DE	213	434	279	226	177	4	1	1,334	.22
	MD	1,573	3,390	2,220	2,155	1,362	52	9	10,761	1.75
	PA	3,768	7,379	4,963	4,254	2,675	114	12	23,165	3.77
		5,642	11,309	7,589	6,730	4,298	172	25	35,765	5.82
4	AL	1,070	3,646	1,683	1,559	947	22	2	8,929	1.45
	FL	6,961	11,208	8,568	6,964	3,687	65	3	37,456	6.10
	GA	1,569	4,519	2,477	2,307	1,306	35	3	12,216	1.99
	KY	1,267	2,748	1,373	1,118	727	19	1	7,253	1.18
	NC	2,009	5,286	2,856	2,607	1,471	35	3	14,267	2.32
	PR	4,533	2,366	672	532	239	3	1	8,346	1.36
	SC	711	1,908	1,267	972	579	57	2	5,496	.89
	TN	1,577	4,628	2,168	2,145	1,254	35	3	11,810	1.92
	VA	2,116	4,826	3,018	2,833	1,785	33	4	14,615	2.38
	AA	40	40	33	13	6			132	.02
		21,853	41,175	24,115	21,050	12,001	304	22	120,520	19.61
5	AR	636	2,138	991	943	585	14	1	5,308	.86
	LA	945	2,311	1,405	1,307	744	24	3	6,739	1.10
	MS	576	1,477	819	752	413	8	2	4,047	.66
	NM	401	1,454	846	824	504	10		4,039	.66
	OK	1,152	2,965	1,442	1,443	791	25	1	7,819	1.27
	TX	4,519	13,025	7,482	7,007	4,070	96	7	36,206	5.89
		8,229	23,370	12,985	12,276	7,107	177	14	64,158	10.44
6	CA	17,738	35,570	16,231	14,953	7,616	326	14	92,448	15.05
	HI	707	939	583	500	291	12	4	3,036	.49
	AP	124	148	80	42	36	3	6	439	.07
	FM	1							1	.00
	MP	6	29	6	8	13			6	.01
	PW				1			1	6	.00
	TT	1		2	3	6	1	8	21	.00
		18,677	36,686	16,902	15,507	7,962	342	34	95,553	15.62
7	AK	467	782	641	504	293	8	5	2,700	.44
	AZ	1,262	4,831	2,434	2,255	1,229	17	1	12,029	1.96
	ID	417	1,123	683	533	270	9		3,035	.49
	MT	370	738	553	402	273	12		2,348	.38
	NV	364	1,199	773	577	334	10		3,257	.53
	OR	1,670	3,626	2,534	1,923	1,073	27	1	10,854	1.77
	UT	820	2,672	719	711	409	10	2	5,343	.87
	WA	3,212	7,407	4,283	3,390	2,024	50	6	20,372	3.32
	WY	223	510	279	204	159	4		1,379	.22
		8,805	22,888	12,899	10,499	6,064	147	15	61,317	9.98
8	AS	11	13	11	6	6		1	48	.01
	MI	2,732	6,697	4,151	3,468	1,935	71	1	19,055	3.10
	OH	4,262	10,915	5,429	4,672	2,766	129	1	28,174	4.59
	WV	919	2,020	881	682	466	15	2	4,985	.81
		7,924	19,645	10,472	8,828	5,173	215	5	52,262	8.51
9	IL	3,684	7,520	4,758	3,998	2,339	126	13	22,438	3.65
	IN	2,154	5,107	2,704	2,284	1,317	82		13,648	2.22
	WI	1,342	3,041	2,118	1,737	1,004	38		9,280	1.51
		7,180	15,668	9,580	8,019	4,660	246	13	45,366	7.38
10	CO	1,365	3,412	2,113	1,852	1,056	23		9,821	1.60
	IA	1,089	1,812	1,445	1,383	645	33	2	6,409	1.04
	KS	1,069	2,181	1,509	1,082	666	30	1	6,538	1.06
	MN	1,337	3,019	2,275	1,914	1,015	49		9,609	1.56
	MO	1,583	3,621	2,560	2,106	1,207	49	1	11,127	1.81
	ND	270	443	369	234	145	7		1,468	.24
	NE	511	1,097	963	752	344	23		3,690	.60
	SD	190	389	357	306	144	10		1,396	.23
		7,414	15,974	11,591	9,629	5,222	224	4	50,058	8.15
Grand Total		101,934	214,076	124,432	108,887	62,601	2,316	152	614,398	
Percent of total licenses		16.59%	34.84%	20.25%	17.72%	10.19%	.38%	.02%		

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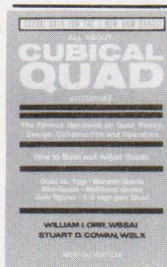
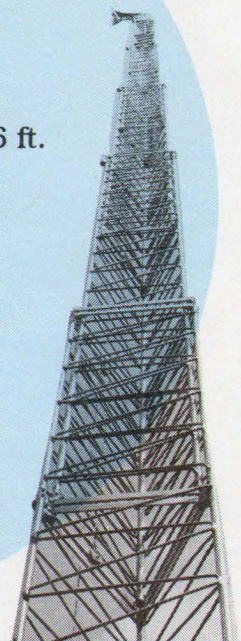
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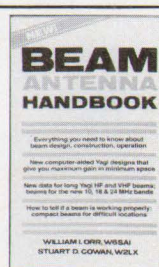
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AP	Pakistan	114	J6	St. Lucia	181	XU	Cambodia	7
A2	Botswana	47	J7	Dominica	114	XV	Vietnam	5
A3	Tonga	86	J8	St. Vincent	60	XW	Laos	4
A4	Oman	84	LA-LJ	Norway	5,920	XX	Macao	40
A5	Bhutan	5	LQ-LW	Argentina	31,956	XZ	Myanmar	2
A6	United Arab	4	LX	Luxembourg	404	YB-YH	Indonesia	65,910
A7	Qatar	32	LY, RP, UP	Lithuania	1,509	YI	Iraq	3
A9	Bahrain	67	LZ	Bulgaria	1,508	YJ	Vanuatu	36
B	China	67	N	U.S.A. (See K, A, N, W)		YK	Syria	14
BV	Taiwan	158	OA	PERU	2,160	YL, RQ, UQ	Latvia	937
CE	Chile	8,712	OD	Lebanon	49	YN	Nicaragua	380
CM, CO	Cuba	1,224	OE	Austria	5,913	YO	Romania	3,801
CN	Morocco	223	OH, OI	Finland	4,888	YS	El Salvador	412
CP	Bolivia	1,948	OH<	Aland Is.	47	YT, YU, YZ	Yugoslavia	6,678
CQ-CU	Portugal	3,113	OK, OL	Czechoslovakia	5,657	YV-YW	Venezuela	20,740
CS3, CT3	Madeira Is.	48	ON	Belgium	5,127	YV<	Aves Is.	4
CU	Azores Is.	388	OX	Greenland	105	Y2-Y9	Federal Republic	5,142
CV-CX	Uruguay	3,503	OY	Faroes	123	ZA	Albania	13
C2	Nauru	16	OZ	Denmark	10,077	ZB2	Gibraltar	54
C3	Andorra	459	PA-PI	Netherlands	14,969	ZC4	Cyprus	18
C5	The Gambia	20	PJ	Curacao, Netherlands Antilles	60	ZD7	St. Helena Is.	17
C6	Bahama Is.	66	PJ	Bonaire, Netherlands Antilles	4	ZD8	Ascension Is.	49
C8, C9	Mozambique	4	PJ	Sint Eustatius, Netherlands Antilles	4	ZD9	Tristan da Cunha Island	13
DA	Federal Republic of Germany	71,790	PJ	Saba, Netherlands Antilles	1	ZF	Cayman Is.	137
DU-DZ	Philippines	4,110	PJ	Sint Maarten, Netherlands Antilles	26	ZK1	Cook Islands	64
D2	Angola	11	PP-PY	Brazil	26,802	ZK2	Niue Island	14
D4	Cape Verde	2	PY<	Fernando de	13	ZL	New Zealand	6,505
D6	State of Comoros	28	PY<	Trindade & Martim	3	ZP	Paraguay	959
EA-EH	Spain	38,902	P2	Surinam	98	ZR-ZT	Republic of South Africa	5,102
EA6-EH6	Balearic	1,014	P4	Papua New Guinea	235	Z2	Zimbabwe	105
EA8-EH8	Canary	2,683	R, U	Aruba	88	3A	Monaco	61
EA9-EH9	Ceuta & Melilla	584	RF, UF	C.I.S.	36,084	3B6	Agalega Is.	4
EI	Ireland	1,896	SA-SM	Georgia	299	3B7	St. Brandon Is.	4
EJ	Aran Is., Ireland	7	SN-SR	Sweden	12,854	3B8	Mauritius Is.	44
EL	Liberia	115	ST	Poland	7,431	3B9	Rodriguez Is.	6
EP	Iran	31	SU	Sudan	6	3C	Equatorial Guinea	10
ES, RR, UR	Estonia	1,034	SV	Egypt	34	3D2	Fiji Is.	87
F	France	15,550	S2	Greece	1,246	3D6	Swaziland	48
FG	Guadeloupe	143	S7	Bangladesh	2	3V	Tunisia	4
FH	Mayotte	21	S8	Seychelles	28	3W	Vietnam	2
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FR	Reunion Is.	132	TJ	Iceland	136	4U	United Nations	2
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FT	French	6	TL	Cameroon	23	5A	Libya	2
FW	Wallis & Futuna	1	TM	Corsica	135	5B	Cyprus	670
FY	French Guiana	97	TN	Central African	27	5H1	Zanzibar	1
G	England, U.K.	60,392	TP	Congo	8	5H3	Tanzania	26
GI	Isle of Man	184	TR	Council of Europe	1	5L	Liberia	7
GJ	Northern Ireland	1,394	TT	Gabon	56	5N	Nigeria	269
GM	Jersey	122	TU	Chad	6	5R	Madagascar	7
GU	Scotland, U.K.	3,287	TV-TX	Ivory Coast	360	5T	Mauritania	10
GW, GX	Bailiwick of Guernsey	120	TY	France	1	5U	Niger	18
HA, HG	Wales, U.K.	3,411	TZ	Benin	8	5V	Togo	11
HB	Hungary	5,070	T2	Mali	16	5W	Western Samoa	148
HB<	Switzerland	4,702	T3	Tuvalu	17	5X	Uganda	5
HC	Liechtenstein	18	T5	Kiribati	41	5Z	Kenya	170
HC8	Ecuador	1,933	T7	Somali Republic	4	6T, 6U	Sudan	4
HH	Galapagos Is., Ecuador	37	VE	Republic of San Marino	52	6V-6W	Senegal	161
HI	Haiti	142	VK	Canada	27,900	6Y	Jamaica	186
HJ-HK	Dominican Republic	1,969	V01	Australia	23,001	7J-7N	Japan	277
HK<	Colombia	7,764	V02	Newfoundland	693	7P	Lesotho	18
HL	San Andres & Providencia	117	V02E	Labrador, Canada	49	7Q	Malawi	14
HP	Korea	5,029	VP2E	Anguilla, Leeward Is.	40	7X	Algeria	104
HR	Panama	1,655	VP2M	Montserrat, Leeward Is.	139	7Z	Saudi Arabia	2
HS	Honduras	289	VP2V	British Virgin Is., Leeward Is.	51	8J-8N	Japanese Special Stations	43
HV	Thailand	397	VP5	Turks & Caicos	33	8P	Barbados	266
HZ	Vatican City	3	VP8	Falkland Is.	797	8Q	Maldives Is.	45
H4	Saudi Arabia	10	VP9	Bermuda	154	8R	Guyana	22
H5	Solomon Is.	16	VQ9	Chagos Archipelago	34	9G	Ghana	180
I-IZ	Rep. of Bophuthatswana	11	VR6	Pitcairn Is.	9	9H	Malta	440
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IM-IS	Capri & Ischia Is., Italy	37	VY1, VY5	Yukon Territory	90	9L	Sierra Leone	37
IT	Sardinia, Italy	406	VY2	Prince Edward Is.	165	9M2	Malaysia	266
JA-JS	Sicily, Italy	1,015	V2	Antigua	52	9M6	Sabah, Malaysia	52
JD1	Japan	35,912	V3	Belize	368	9M8	Sarawak, Malaysia	37
JD1, JU	Ogasawara Is.	262	V4	St. Kitts-Nevis	65	9N	Nepal	4
JT, JU	Mongolia	55	V5	Namibia	84	9Q	Zaire	9
JW	Svalbard Is.	50	V6	Federated	44	9U	Burundi	2
JX	Jan Mayen Is.	29	V7	Marshall Islands	34	9V	Singapore	80
JY	Jordan	158	V8	Brunei	77	9X	Rwanda	33
J2	Djibouti	41	XE, XF	Mexico	5,833	9Y	Trinidad & Tobago	282
J3	Grenada	68	XP	Greenland	1			
J5	Guinea Bissau	8	XQ	Chile	138			
			XT	Burkina-Faso	24			

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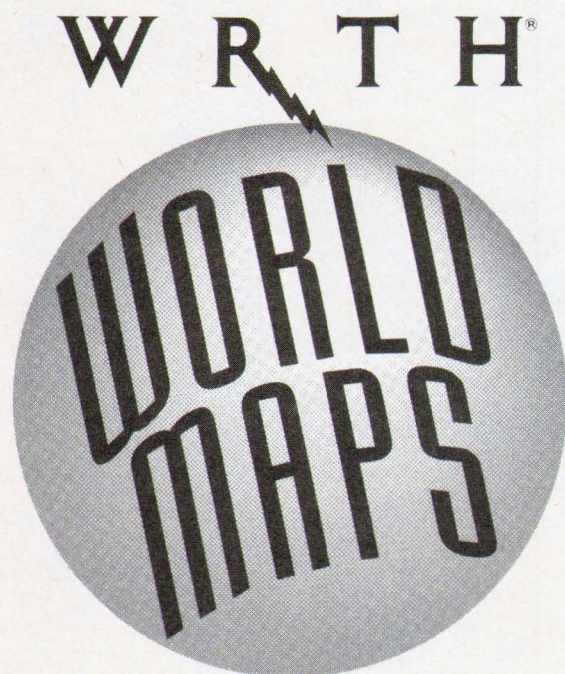
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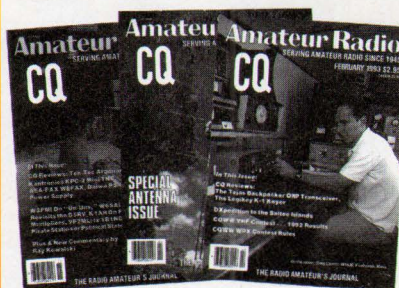
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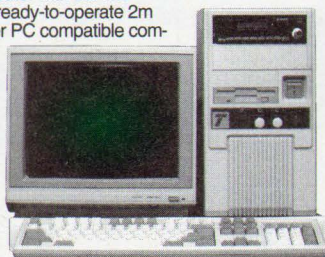
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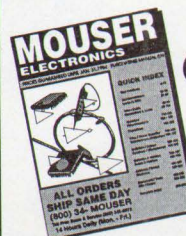


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594 297
595 83
596 187
597 452
598 383
599 253

NEBRASKA NE
0.60% OF U.S. AMATEUR POPULATION
ZIP 680 388 LICENSES
681 893
683 158
684 158
685 641
686 172
687 272
688 307
689 182
690 80
691 246
692 30
693 163

NEVADA NV
0.53% OF U.S. AMATEUR POPULATION
ZIP 890 522 LICENSES
891 1,203
893 22
894 663
895 554
897 216
898 77

NEW HAMPSHIRE NH
0.68% OF U.S. AMATEUR POPULATION
ZIP 030 1,530 LICENSES
031 369
032 529
033 184
034 303
035 110
036 43
037 224
038 831

NEW JERSEY NJ
2.67% OF U.S. AMATEUR POPULATION
ZIP 070 2,602 LICENSES
071 236
072 195
073 145
074 1,256
075 168
076 1,184
077 1,483
078 935
079 657
080 2,521
081 242
082 513
083 486
084 68
085 568
086 457
087 957
088 1,659
089 105

NEW MEXICO NM
0.66% OF U.S. AMATEUR POPULATION
ZIP 870 277 LICENSES
871 1,380
873 41
874 127
875 515
877 42
878 76
879 49
880 753
881 120
882 368
883 266
884 27

NEW YORK NY
5.45% OF U.S. AMATEUR POPULATION
ZIP 100 1,097 LICENSES
101 61
102 8
103 1,602
104 740
105 1,246
106 96
107 329
108 114
109 915
110 539
111 135
112 1,550
113 1,122
114 708
115 1,302
116 121
117 3,721
118 224
119 548
120 929
121 664

122 246
123 492
124 462
125 1,076
126 260
127 197
128 467
129 409
130 1,039
131 491
132 533
133 418
134 658
135 168
136 488
137 449
138 526
139 264
140 1,149
141 560
142 924
143 103
144 876
145 962
146 1,155
147 428
148 783
149 146

NORTH CAROLINA NC
2.32% OF U.S. AMATEUR POPULATION
ZIP 270 457 LICENSES
271 484
272 964
273 486
274 523
275 1,221
276 947
277 331
278 674
279 271
280 917
281 954
282 828
283 1,028
284 525
285 789
286 1,070
287 1,376
288 330
289 92

NORTH DAKOTA ND
0.24% OF U.S. AMATEUR POPULATION
ZIP 580 129 LICENSES
581 225
582 234
583 104
584 128
585 285
586 140
587 182
588 41

OHIO OH
4.59% OF U.S. AMATEUR POPULATION
ZIP 430 1,480 LICENSES
431 705
432 1,342
433 497
434 381
435 717
436 788
437 427
438 151
439 564
440 2,401
441 2,342
442 1,532
443 673
444 942
445 385
446 1,048
447 509
448 768
449 303
450 1,514
451 866
452 2,125
453 1,770
454 1,629
455 237
456 737
457 408
458 908

OKLAHOMA OK
1.27% OF U.S. AMATEUR POPULATION
ZIP 730 1,402 LICENSES
731 1,356
734 158
735 509
736 100
737 310
738 95
739 58
740 1,195
741 1,066
743 255

744 398
745 174
746 148
747 145
748 336
749 114

OREGON OR
1.77% OF U.S. AMATEUR POPULATION
ZIP 970 1,989
971 916
972 2,132
973 1,532
974 1,788
975 1,028
976 461
977 475
978 489
979 44

PENNSYLVANIA PA
3.77% OF U.S. AMATEUR POPULATION
ZIP 150 1,180 LICENSES
151 789
152 1,279
153 311
154 276
155 141
156 600
157 248
158 206
159 262
160 391
161 507
162 129
163 405
164 277
165 409
166 365
167 116
168 346
169 202
170 1,030
171 263
172 219
173 621
174 311
175 512
176 271
177 306
178 395
179 214
180 844
181 276
182 243
183 295
184 401
185 176
186 399
187 233
188 260
189 931
190 2,705
191 1,380
192 1
193 824
194 994
195 321
196 309

PUERTO RICO PR
1.36% OF U.S. AMATEUR POPULATION
ZIP 006 4,505 LICENSES
007 2,360
009 1,478

RHODE ISLAND RI
0.39% OF U.S. AMATEUR POPULATION
ZIP 028 1,765 LICENSES
029 617

SOUTH CAROLINA SC
0.89% OF U.S. AMATEUR POPULATION
ZIP 290 430 LICENSES
291 486
292 403
293 470
294 883
295 492
296 1,483
297 436
298 268
299 143

SOUTH DAKOTA SD
0.23% OF U.S. AMATEUR POPULATION
ZIP 570 274 LICENSES
571 179
572 187
573 140
574 125
575 82
576 27
577 382

TENNESSEE TN
1.92% OF U.S. AMATEUR POPULATION
ZIP 370 1,029 LICENSES
371 669
372 669

373 1,417
374 447
376 1,098
377 942
378 1,293
379 1,064
380 432
381 1,509
382 208
383 478
384 218
385 337

TEXAS TX
5.89% OF U.S. AMATEUR POPULATION
ZIP 750 3,734 LICENSES
751 1,132
752 1,854
753 19
754 617
755 296
756 591
757 639
758 240
759 351
760 2,332
761 1,660
762 601
763 460
764 179
765 606
766 278
767 286
768 152
769 263
770 3,260
772 101
773 1,233
774 882
775 1,964
776 585
777 235
778 438
779 312
780 537
781 413
782 2,148
783 293
784 503
785 646
786 896
787 1,491
788 210
789 136
790 360
791 335
792 68
793 249
794 431
795 190
796 326
797 714
798 101
799 870

UTAH UT
0.87% OF U.S. AMATEUR POPULATION
ZIP 840 2,121 LICENSES
841 1,263
843 432
844 297
845 138
846 634
847 410

VERMONT VT
0.29% OF U.S. AMATEUR POPULATION
ZIP 050 202 LICENSES
051 101
052 124
053 98
054 713
056 239
057 192
058 127
059 2

VIRGINIA VA
2.38% OF U.S. AMATEUR POPULATION
ZIP 220 1,826 LICENSES
221 1,844
222 403
223 592
224 312
225 239
226 346
227 137
228 250
229 445
230 320
231 499
232 820
233 409
234 966
235 386
236 755
237 151
238 512
239 135

240 748
241 437
242 411
243 352
244 333
245 945
246 178

VIRGIN ISLAND VI
0.05% OF U.S. AMATEUR POPULATION
ZIP 008 317 LICENSES

WASHINGTON WA
3.32% OF U.S. AMATEUR POPULATION
ZIP 980 4,203 LICENSES
981 2,729
982 2,920
983 2,553
984 1,008
985 1,371
986 1,455
987 72
988 562
989 643
990 341
991 494
992 1,012
993 954
994 58

WEST VIRGINIA WV
0.81% OF U.S. AMATEUR POPULATION
ZIP 247 274 LICENSES
248 192
249 104
250 146
251 230
252 111
253 305
254 223
255 307
256 214
257 232
258 266
259 143
260 425
261 471
262 224
263 270
264 160
265 381
266 79
267 116
268 110

WISCONSIN WI
1.51% OF U.S. AMATEUR POPULATION
ZIP 530 1,048 LICENSES
531 1,060
532 1,181
534 246
535 761
537 531
538 49
539 322
540 195
541 344
542 239
543 267
544 837
545 274
546 292
547 571
548 342
549 721

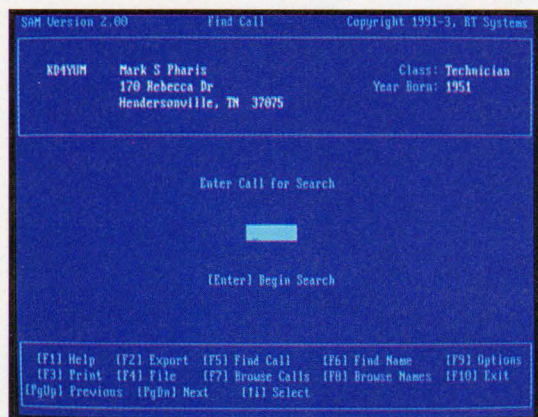
WYOMING WY
0.22% OF U.S. AMATEUR POPULATION
ZIP 820 374 LICENSES
821 4
822 91
823 59
824 95
825 83
826 236
827 94
828 106
829 156
830 36
831 45

APO FPO (MILITARY)
0.51% OF U.S. AMATEUR POPULATION
ZIP 090 140 LICENSES
091 145
092 66
093 12
094 40
095 67
096 41
097 26
098 16
340 132
962 78
963 149
964 11
965 83
966 123
967 1,971

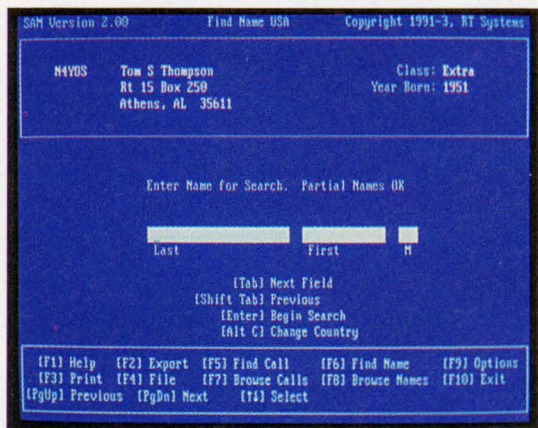
SAM Amateur Radio Callsign Database

SAM is easy to use to find hams by CALLSIGN, NAME, or QTH. You can find information about currently licensed hams of the United States and Canada with easy to use functions that are accessed through commands that are conveniently displayed at all times in an on-screen menu. *SAM* comes complete with the search routines and database for quick and easy access.

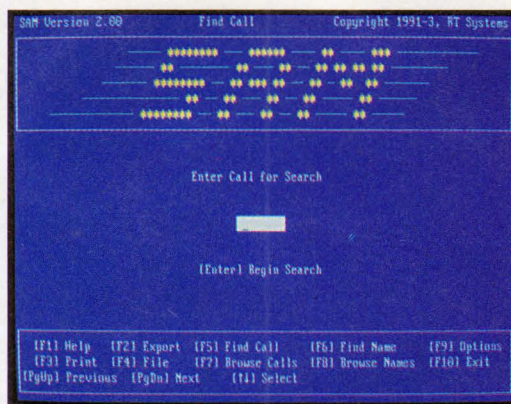
Sam starts in the FIND CALL mode and is immediately ready for you to enter a callsign. The information about that ham is displayed in the top window of the screen. You can save the information to an ASCII file for a later application, or print a label for a QSL card through the touch of one key!



Do you have friends that you know are hams, but you've lost track of the callsign? *SAM* to the rescue!!! The FIND NAME search routine of *SAM* gives you access to callsign information through a name search. *SAM* uses a very exacting search for the name you enter. If *SAM* cannot make an exact match, it will return the closest match without passing the entry requested. Through the BROWSE feature of *SAM* you can continue searching as if in a phone book. Partial last names can also be used to begin a search.

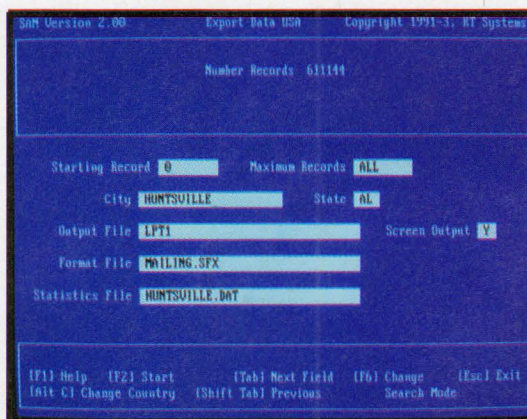


You can easily ADD or EDIT the information about US or Canadian hams without losing the original FCC and DOC information. A COMMENT FIELD is available for your personal notes about new friends and contacts. The



Comment Field is displayed each time the edited call is returned.

Through EXPORT you can search for hams in a given location. Searches are accessed by City, State, or Zip Code. The entries found can be browsed for additional information, saved to a file for use in another application, or sent directly to the printer. You control the format of the saved or printed information through easy to use format codes.



SAM Option Files are available at a small cost for more information about each ham. The option files include: County Cross Reference, License Expiration Date, Full Date of Birth, Previous Call, and Date First Licensed.

Many popular logging programs interface to *SAM* by providing direct access to the information for use in logging.

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DXCC COUNTRIES LIST

The ARRL Postwar Countries List is the official standard used in connection with the DX Century Club. To qualify for the DX Century Club Award, an applicant must submit confirmations from at least 100 different countries contacted after November 15, 1945, in accordance with the Postwar DXCC Rules. Copies of the DXCC Rules and an application form will be furnished by the ARRL on request.

AP-AS	Pakistan	KH4	Midway Is.	VP9	Bermuda Is.
A2	Botswana	KH5	Palmyra, Jarvis Is.	VQ9	Chagos Arch.
A3	Tonga	KH5K	Kingman Reef	VR6	Pitcairn Is.
A4	Oman	KH6	Hawaiian Is.	VS6	Hong Kong
A5	Bhutan	KH7	Kure Is.	VU	India
A6	United Arab Emirates	KH8	American Samoa	VU	Andaman & Nicobar Is.
A7	Qatar	KH9	Wake Is.	VU	Laccadive Is.
A9	Bahrain	KH0	Mariana Is.	V2	Antigua, Barbuda
BV	Taiwan	KL7	Alaska	V3	Belize
BY, BT	China	KP1	Navassa Is.	V4	St. Kitts and Nevis
CA-CE	Chile	KP2	Virgin Is.	V5	Namibia
CE9, AT0, DP0, FT8Y		KP4	Puerto Rico	V7	Marshall Is.
KC4, LA, LU, OR4, UA1, UK1, VK0, VP8, Y8, ZL5, ZS1, ZK0, 3Y, 4K1, 8J	Antarctica	KP5	Desecheo Is.	V8	Brunei
CE0	Easter Is.	LA-LN	Norway	XA-XI	Mexico
CE0	San Felix Is.	LO-LW	Argentina	XA4-X14	Revilla Gigedo
CE0	Juan Fernandez Is.	LX	Luxembourg	XT	Burkina-Faso
CM, CO	Cuba	LZ	Bulgaria	XU	Kampuchea
CN	Morocco	OA-OC	Peru	XW	Laos
CP	Bolivia	OD	Lebanon	XX9	Macao
CT	Portugal	OE	Austria	XY, XZ	Myanmar
CT3	Madeira Is.	OF-OI	Finland	YA	Afghanistan
CU	Azores	OH0	Aland Is.	YB-YH	Indonesia
CV-CX	Uruguay	OJ0	Market Reef	YI	Iraq
CY9	St. Paul Is.	ON-OT	Belgium	YJ	Vanuatu
CY0	Sable Is.	OX	Greenland	YK	Syria
C2	Nauru	OY	Faroes	YN	Nicaragua
C3	Andorra	OZ	Denmark	YO-YR	Romania
C5	The Gambia	PA-PI	Netherlands	YS	El Salvador
C6	Bahamas	PJ2, 3, 4	Bonaire, Curacao (Neth. Antilles)	YT, YU, YZ	Yugoslavia
C8, C9	Mozambique	PJ5, 6, 7, 8	Sint Maarten, Saba, & Sint Eustatius Is.	YU5	Macedonia
DA-DR	Germany	PP-PY	Brazil	YV-YZ	Venezuela
DU-DZ	Philippines	PP0-PP0	Fernando de Noronha	YV0	Aves Is.
D2, D3	Angola	PP0-PP0	St. Peter & St. Paul Rocks	ZA	Albania
D4	Cape Verde	PP0-PY0	Trindade & Martim Vaz Is.	ZB2	Gibraltar
EA-EH	Spain	PZ	Surinam	ZC4	U.K. Sovereign Bases on Cyprus
EA6-EH6	Balearic Is.	P2	Papua New Guinea	ZD7	St. Helena
EA8-EH8	Canary Is.	P4	Aruba	ZD8	Ascension Is.
EA9-EH9	Ceuta and Melilla	SA-SM	Sweden	ZD9	Tristan da Cunha & Gough Is.
EI-EJ	Ireland	SN-SR	Poland	ZF	Cayman Is.
EL	Liberia	ST	Sudan	ZK1	South Cook Is.
EP-EQ	Iran	ST0	Southern Sudan	ZK1	North Cook Is.
ET	Ethiopia	SU	Egypt	ZK2	Niue
F	France	SV-SZ	Greece	ZK3	Tokelau Is.
FG	Guadeloupe	SV5	Dodecanese Is.	ZL, ZM	New Zealand
FH	Mayotte	SV9	Crete	ZL7	Chatham Is.
FJ, FS	Saint Martin	SV/A	Mount Athos	ZL8	Kermadec Is.
FM	New Caledonia	SZ	Bangladesh	ZL9	Auckland Is. & Campbell Is.
FO	Martinique	S7	Seychelles	ZP	Paraguay
FO	Clipperton Is.	S9	Sao Tome & Principe	ZR-ZU	Rep. of South Africa
FP	French Polynesia	SA-TC	Western Sahara	ZR2-ZU8	Prince Edward & Marion Is.
FR/G	St. Pierre & Miquelon	TF	Turkey	ZS	Penguin Is.
FR/J, FR/E	Glorioso Is.	TG, TD	Iceland	ZS9	Walvis Bay
FR	Juan de Nova, Europa	TI, TE	Guatemala	Z2	Zimbabwe
FR/T	Reunion	T19	Costa Rica	1A0	Sovereign Military Order of Malta
FR8W	Tromelin	TJ	Cocos Is.	1S	Spratty Is.
FT8X	Crozet Is.	TK	Cameroon	3A	Monaco
FT8Z	Kerguelen Is.	TL	Corsica	3B6, 3B7	Agalega & St. Brandon Is.
FT8Z	Amsterdam & St. Paul Is.	TN	Central African Rep.	3B8	Mauritius Is.
FW	Wallis & Futuna Is.	TR	Congo	3B9	Rodrigues Is.
FY	French Guiana	TT	Gabon	3C	Equatorial Guinea
G	England	TU	Chad	3C0	Pagalu Is.
GD	Isle of Man	TY	Ivory Coast	3D2	Fiji Is.
GI	Northern Ireland	TZ	Benin	3D2	Conway Reef
GJ	Jersey	T2	Mali	3D2	Rotuma Is.
GM	Scotland	T2	Tuvalu	3DA	Swaziland
GU	Guernsey & Dependencies	T30	West Kiribati (Gilbert & Ocean Is.)	3V	Tunisia
GW	Wales	T31	Cent. Kiribati (Br. Phoenix Is.)	3W, XV	Vietnam
HA, HG	Hungary	T32	East Kiribati (Line Is.)	3X	Guinea
HB	Switzerland	T33	Banaba Is.	3Y	Bouvet
HB0	Liechtenstein	T5	Somalia	3Y	Peter I Is.
HC-HD	Ecuador	T7	San Marino	4J	Mal'yi Vysotskij Is.
HC8-HD8	Galapagos Is.	UA1, 3, 4, 6	European R. S. F. S. R.	4N5	Macedonia
HH	Haiti	UA1	Franz Josef Land	4P-4S	Sri Lanka
HI	Dominican Republic	UA2	Kaliningrad	4U	I.T.U. Geneva
HJ-HK	Colombia	UA9, UA0	Asiatic R. S. F. S. R.	4U	UN Hq. New York
HK0	Malpelo Is.	UB, UT, UY	Ukraine	4A, 4Z	Israel
HK0	San Andres & Providencia	UC	Byelorussia	5A	Libya
HL	Korea	UD	Azerbaijan	5B	Cyprus
HO-HP	Panama	UE	Georgia	5H-5I	Tanzania
HQ-HR	Honduras	UG	Armenia	5N-5O	Nigeria
HS	Thailand	UH	Turkmenistan	5R-5S	Madagascar
HV	Vatican	UI	Uzbekistan	5T	Mauritania
HZ	Saudi Arabia	UJ	Tadzhikistan	5U	Niger
H4	Solomon Is.	UL	Kazakhstan	5V	Togo
I	Italy	UM	Kirghizia	5W	Western Samoa
IM0, IS0	Sardinia	UO	Moldavia	5X	Uganda
JA-JS	Japan	UP	Lithuania	5Y-5Z	Kenya
JD1	Minami-Tori-Shima	UQ	Latvia	6V-6W	Senegal
JD1	Ogasawara Is.	UR	Estonia	6Y	Jamaica
JT-JV	Mongolia	VE, VO, VY	Canada	70	Yemen
JW	Svalbard Is.	VK	Australia	7P	Lesotho
JX	Jan Mayen Is.	VK9	Lord Howe Is.	7Q	Malawi
JY	Jordan	VK9	Willis Is.	7T-7Y	Algeria
J2	Djibouti	VK9	Christmas Is.	8P	Barbados
J3	Grenada	VK9	Cocos (Keeling) Is.	8Q	Maldives Is.
J5	Guinea-Bissau	VK9	Mellish Reef	8R	Guyana
J6	St. Lucia	VK0	Norfolk Is.	8G	Ghana
J7	Dominica	VK0	Heard Is.	9H	Malta
J8	St. Vincent & Dependencies	VK0	Macquarie Is.	9I-9J	Zambia
K, W, N, AA-AL	United States of America (Western Caroline Is.)	VP2E	Anguilla	9K	Kuwait
KC6	Guantanamo Bay	VP2M	Montserrat	9L	Sierra Leone
KG4	Baker, Howland Is.	VP2V	British Virgin Is.	9M2, 9M4	Malaysia
KH1	Guam	VP5	Turks & Caicos Is.	9M6, 9, 8	Eastern Malaysia
KH2	Johnston Is.	VP8	Falkland Is.	9N	Nepal
KH3		VP8, LU	South Georgia Is.	9Q-9T	Zaire
		VP8, LU	South Orkney Is.	9U	Burundi
		VP8, CE9, HF0, LU, 4K1	South Sandwich Is.	9V	Singapore
			South Shetland Is.	9X	Rwanda
				9Y-9Z	Trinidad & Tobago

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FT-2008/7008 IC2/4GAT/24AT
IC-A21/U16

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MAXON, MOTOROLA,
YAESU: FTH 2008/7008
UNIDEN, REGENCY, KING,
MARINE ICOM: M7, M56, M700
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R7000,
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INTERNATIONAL "Q" SIGNALS

ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE	ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE
QRA	What is the name of your station?	The name of my station is ...	OSX	Will you listen to ... [call sign(s)] on ... kHz (or MHz)?	I am listening to [ca11 sign(s)] on ... kHz (or MHz).
QRB	How far approximately are you from my station?	The approximate distance between our stations is ... nautical miles (or kilometers).	OSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on ... kHz (or MHz)).
QRD	Where are you bound and where are you from?	I am bound for ... from ...	OSZ	Shall I send each word or group or more than once?	Send each word or group twice (or ... times).
QRG	Will you tell me my exact frequency (or that of ...)?	Your exact frequency (or that of ...) is ... kHz (or MHz).	QTA	Shall I cancel telegram number ... as if it had not been sent?	Cancel telegram number ... as if it had not been sent.
QRH	Does my frequency vary?	Your frequency varies.	QTB	Do you agree with my counting of words?	I do not agree with your counting of words. I will repeat the first letter or digit of each word or group.
QRI	How is the tone of my transmission?	The tone of your transmission is 1. Good. 2. Variable. 3. Bad.	QTC	How many telegrams have you to send?	I have ... telegrams for you (or for ...).
QRK	What is the readability of my signals (or those of ...)?	The readability of your signals (or those of ...) is ... 1. Unreadable. 2. Readable now and then. 3. Readable, but with difficulty. 4. Readable. 5. Perfectly readable.	QTE	What is my TRUE bearing from you? or What is my TRUE bearing from ... (call sign)? or What is the TRUE bearing of (call sign) from ... (call sign)?	Your TRUE bearing from me is ... degrees (at ... hours). or Your TRUE bearing from ... (call sign) was ... degrees (at ... hours). or The TRUE bearing of ... (call sign) from (call sign) was ... degrees (at ... hours).
QRL	Are you busy?	I am busy (or I am busy with ...). Please do not interfere.	QTG	Will you send two dashes of ten seconds each followed by your call sign (repeated ... times) [on ... kHz (or MHz)]? or Will you request ... to send two dashes of ten seconds followed by his call sign (repeated ... times) on ... kHz (or MHz)?	I am going to send two dashes of ten seconds each followed by my call sign (repeated ... times) [on ... kHz (or MHz)]. or I have requested ... to send two dashes of ten seconds followed by his call sign (repeated ... times) on ... kHz (or MHz).
QRM	Are you being interfered with?	I am being interfered with.	QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is ... latitude ... longitude (or according to any other indication).
QRN	Are you troubled by static?	I am troubled by static.	QTI	What is your TRUE track?	My TRUE track is ... degrees.
QRO	Shall I increase power?	Increase power.	QTJ	What is your speed?	My speed is ... knots (or kilometers per hour).
QRP	Shall I decrease power?	Decrease power.	QTL	What is your TRUE heading?	My TRUE heading is ... degrees.
QRQ	Shall I send faster?	Send faster (... words per minute).	QTN	At what time did you depart from ... (place)?	I departed from ... (place) at ... hours.
QRR	Are you ready for automatic operation?	I am ready for automatic operation. Send at ... words per minute.	QTO	Have you left dock (or port)? or Are you airborne?	I have left dock (or port). or I am airborne.
QRS	Shall I send more slowly?	Send more slowly (... words per minute).	QTP	Are you going to enter dock (or port)? or Are you going to alight (or land)?	I am going to enter dock (or port). or I am going to alight (or land).
QRT	Shall I stop sending?	Stop sending.	QTT	Can you communicate with my station by means of the International Code of Signals?	I am going to communicate with your station by means of the International Code of Signals.
QRU	Have you anything for me?	I have nothing for you.	QTR	What is the correct time?	The correct time is ... hours.
QRV	Are you ready?	I am ready.	QTS	Will you send your call sign for minute(s) now (or at ... hours) [on ... kHz (or MHz)] so that your frequency may be measured?	I will send my call sign for minute(s) now (or at ... hours) [on ... kHz (or MHz)] so that my frequency may be measured.
QRW	Shall I inform ... that you are calling him on ... kHz (or MHz)?	Please inform ... that I am calling him on ... kHz (or MHz).	QTT	What are the hours during which your station is open?	My station is open from ... to ... hours.
QRX	When will you call me again?	I will call you again at ... hours [on ... kHz (or MHz)].	QTV	Shall I stand guard for you on the frequency of ... kHz (or MHz) (from ... to ... hours)?	Stand guard for me on the frequency of ... kHz (or MHz) (from ... to ... hours).
QRY	What is my turn?	Your turn is Number ... (relates to communication.)	QTX	Will you keep your station open for further communication with me until further notice (or until ... hours)?	I will keep my station open for further communication with you until further notice (or until ... hours).
QRZ	Who is calling me?	You are being called by ... [on ... kHz (or MHz)].	QUA	Have you news of ... (call sign)?	Here is news of ... (call sign).
QSA	What is the strength of my signals (or those of ...)?	The strength of your signals (or those of ...) is 1. Scarcely perceptible. 2. Weak. 3. Fairly good. 4. Good. 5. Very good.	QUB	Can you give me, in the following order, information concerning: visibility, height of clouds, direction and velocity of ground wind at ... (place of observation)?	Here is the information requested ...
QSB	Are my signals fading?	Your signals are fading.	QUC	What is the number (or other indication) of the last message you received from me [or from ... (call sign)]?	The number (or other indication) of the last message I received from you [or from ... (call sign)] is ...
QSD	Is my keying defective?	Your keying is defective.	QUD	Have you received the urgency signal sent by ... (call sign of mobile station)?	I have received the urgency signal sent by ... (call sign of mobile station) at ... hours.
QSG	Shall I send ... telegrams at a time?	Send ... telegrams at a time.	QUF	Have you received the distress signal sent by ... (call sign of mobile station)?	I have received the distress signal sent by ... (call sign of mobile station) at ... hours.
QSJ	What is the charge to be collected per word to ... including your internal telegraph charge?	The charge to be collected per word to ... including my internal telegraph charge is ... francs.	QUG	Will you be forced to alight (or land)?	I am forced to alight (or land) immediately. or I shall be forced to alight (or land) at ... (position or place).
QSK	Can you hear me between your signals?	I can hear you between my signals.	QUH	Will you give me the present barometric pressure at sea level?	The present barometric pressure at sea level is ... (units).
QSL	Can you acknowledge receipt?	I am acknowledging receipt.			
QSM	Shall I repeat the last telegram which I sent you, or some previous telegram?	Repeat the last telegram which you sent me [or telegram(s) number(s) ...].			
QSN	Did you hear me [or ... (call sign)] on ... kHz (or MHz)?	I did hear you [or ... (call sign)] on ... kHz (or MHz)?			
QSO	Can you communicate with ... direct or by relay?	I can communicate with ... direct (or by relay through ...).			
QSP	Will you relay to ... free of charge?	I will relay to ... free of charge.			
QSQ	Have you a doctor on board [or ... (name of person) on board]?	I have a doctor on board [or ... (name of person) on board].			
QSU	Shall I send or reply on this frequency [or on ... kHz (or MHz)] (with emissions of class ...)?	Send or reply on this frequency [or on ... kHz (or MHz)] (with emissions of class ...).			
QSV	Shall I send a series of V's on this frequency [or ... kHz (or MHz)]?	Send a series of V's on this frequency [or ... kHz (or MHz)].			
QSW	Will you send on this frequency [or on ... kHz (or MHz)] (with emissions of class ...)?	I am going to send on this frequency [or on ... kHz (or MHz)] (with emissions of class ...).			

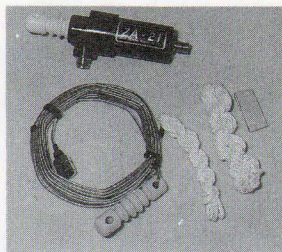
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Band	3.5MHz	7MHz	14MHz	21MHz	50MHz
Length	131'	65'	32'	21'	9'

(Power Rating IKW PEP)

ZA-721

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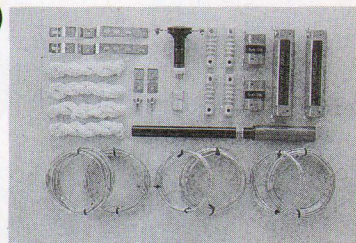
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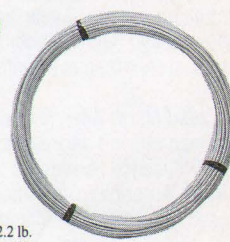
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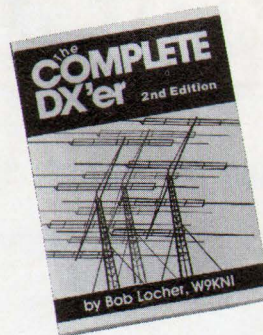
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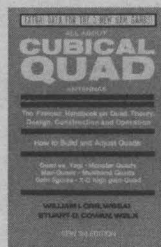
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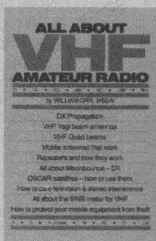


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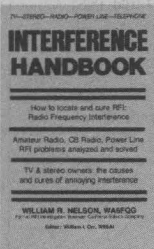


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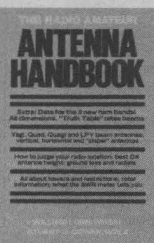


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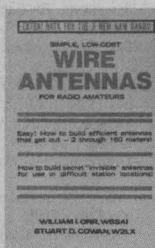


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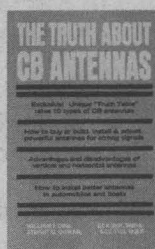
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	Ninth Call Area, All Calls: Northern Illinois DX Assoc., Box 519, Elmhurst, IL 60126, USA	CE,XQ	Radio Club de Chile Bureau (IARU member), Box 13630, Santiago, Chile or Federacion de Clubes de Radioaficionados de Chile, Box 72, Valparaiso, Chile	HH	Radio Club of Haiti, Box 501, Port-Au-Prince, Haiti
	Zero Call Area, All Calls: Zero QSL Bureau, Box 4798, Overland Park, KS 66204	CM1,C01	QSL Bureau, Box 253, Pinar del Rio 20100, Cuba	HI	Radio Club Dominicano (IARU member), Box 1157, Santo Domingo, Dominican Republic
	Puerto Rico, All Calls: KP4 QSL Bureau, Box 1061 San Juan, Puerto Rico 00902, USA	CM2,C02	QSL Bureau, Box 16, Santa Cruz Norte 32900, P. Havana, Cuba	or UDR, Box 951, Santo Domingo, Dominican Republic	or DX QSL Bureau, c/o L. Camarano HI8LC Box 88, Santo Domingo 00001, Dominican Republic
	U.S. Virgin Islands, All Calls: Virgin Islands Amateur Radio Club, GPO Box 11360, Charlotte Amalie, Virgin Islands 00801, USA	CM3,C03	QSL Bureau, Box 55, Matanzas 40100, Cuba	HI3	UDRA - Santiago, Box 449-3, Santiago, Dominican Republic
	Hawaiian Islands, All Calls: QSL Bureau, Box 788, Wahiawa, HI 96786, USA	CM4,C04	QSL Bureau, Box 785, Santa Clara 50100, Cuba	HJ,HK	Liga Colombiana de Radioaficionados (IARU member), Box 584, Bogota, Colombia
	Alaska, All Calls: Alaska QSL Bureau, 4304 Garfield St., Anchorage, AK 99503, USA	CM5,C05	QSL Bureau, Box 52, Camaguey 70100, Cuba	or Radio Club de Antioquia, Box 2500, Medellin, Colombia	Liga Colombiana de Radioaficionados (IARU member), Box 6872, Cartagena, Colombia
	SWL - No Outgoing Service Mike Witkowski WDX9JFT, 4206 Nebel Street Stevens Point, WI 54481, USA	CM6,C06	QSL Bureau, Box 5, Santiago de Cuba 90100, Cuba	HK1	Liga Colombiana de Radioaficionados (IARU member), Box 6872, Cartagena, Colombia
KA	(2x2, except KA6 2x2) FEARL QSL Bureau, c/o Sam Fleming, DOL Sagami Facility, APO San Francisco 96343, USA	CM7,C07	ARRAM, Box 299, Rabat, Morocco	HK0	LCRA, Box 585, Bogota, Colombia
KA6,KR6	(2x2 calls only) Radio Society of Okinawa, PSC 560 Box 217, APO AP 96376-0217, USA	CM8,C08	Radio Club Boliviano, Box 2800, Cochabamba, Bolivia	HL,HM	KARL, Central Box 162, Seoul 100-00, South Korea
KG4	(2x2 calls only) Guantanamo ARC, Box 73, FPO New York 09593, USA	CN	QSL Bureau, Box 1900, Cochabamba, Bolivia	HL9	American Amateur Radio Club of Korea, Box 153, APO San Francisco 96206, USA
KH2,KG6	(Guam only) MARC, Box 445, Agana, Guam 96910, USA	CP	QSL Bureau, Box 393, Santa Cruz, Bolivia	HP	Liga Panamena de Radioaficionados (IARU member), Box 175, Panama 9A, Panama
KH3	QSL Bureau, Box 764, APO San Francisco 96305, USA	CP5	Rede dos Emissores Portugueses, Rua Dom Pedro V, No. 7-40, P-1200 Lisbon, Portugal	or Radio Club de Panama, Box 10745, Panama 4, Panama	Liga Panamena Radioaficionados, Box 568, Colon, Panama
KH4	QSL Bureau, Box 43, FPO AP 96515, USA	CP6	Radio Club of Uruguay, Box 37, Montevideo, Uruguay	HP2	c/o Esteban McKay HP3ML, Box 587, David, Chiriqui, Panama
KH0,KG6	(Saipan only) Box 7388 Capitol Hill, Saipan, CM 96950, USA	CR,CU	Nauru Amateur Radio Club, QSL Bureau, Box 29, Nauru	HP3	or LPRA, Box 963, David, Chiriqui, Panama
KM6	QSL Bureau, Box 43, FPO San Francisco 96614, USA	C3	Unio de Radioaficionados Andorrans, Box 150, La Vella, Andorra	HP5	c/o Dr. Francisco Narvaez HP5FI, Box 153, Chitre, Panama
AP	Pakistan Amateur Radio Society, QSL Bureau, Box 65, Lahore, Pakistan	C5	Radio Society of The Gambia, Box 2470, Serrekunda, The Gambia	HR	Radio Club de Honduras (IARU member), Box 0273, San Pedro Sula, Honduras
A2	Botswana Amateur Radio Society, QSL Bureau, Box 1873, Gaborone, Botswana	C6	Bahamas Amateur Radio Society, Box SS-6004, Nassau, Bahamas	or Radio Club Tegucigalpa, Box 149-C, Tegucigalpa, Honduras	Radio Club de Honduras, QSL Bureau, Box 273, San Pedro Sula, Cortes, Honduras
A3	Amateur Radio Club of Tonga, Box 1553, Nuku Alofa, Tonga	DA-DR	DARC Amateurfunk Zentrum, Box 1155, D-3507 Baunatal 1, Germany	HR5	c/o Noe Leopoldo Cruz HR5NC Santa Rosa de Copan, Honduras
A4	Royal Omani Amateur Radio Society, Box 981, Muscat, Oman	DU-DZ,4F	PARA QSL Bureau, Box 4083, Manila, Philippines	HS	RAST QSL Bureau, GPO Box 2008, Bangkok, 10501 Thailand
A6	QSL Bureau, Box 5708, Dubai, United Arab Emirates	D4	LARCV, Box 145, Mindelo, Cape Verde	HV	c/o Domenico Petty HV1CN, Radio Station, Vatican City
		EA	URE, Union de Radioaficionados Espanoles, Box 220, E-20800 Madrid, Spain	H4	SIRS, Box 418, Honiara, Solomon Islands
		EI,EJ	Irish Radio Transmitters Society (IARU member), Box 462, Dublin 9, Ireland	I,I,Z	ARI-QSL Bureau, Via D. Scariatti 31, I 20124 Milano MI (Italy)
		EL,5L	Liberian Radio Amateur Association, Box 10-1477, 1000 Monrovia 10, Liberia	JA-JS	JARL, 1-14-2 Sugamo, Toshima, Tokyo, 170 Japan
		EP	Anjoman-e Radio Amateurs-e Iran Box 16765/1187, Tehran, Iran	JT	Radio Club Station JT1KAA, Box 639, Ulan Bator 13, Mongolia
		ES	QSL Bureau, Box 125, Tallinn 200090, Estonia, USSR	JW,JX	NRRL, Box 21, Refstad, N-0513 Oslo 5, Norway
		ET	ET3TRC Telecoms ARC, Box 1047, Addis Ababa, Ethiopia	JY	Royal Jordanian Radio Amateur Society, Box 2353, Amman, Jordan
		F	Cards for members only via REF QSL, BP 2129, F-37021 Tours Cedex, France	J2	ARAD QSL Bureau, Box 1076, Djibouti, Republic of Djibouti
		FG,FJ,FM, FP,FS,FT	Cards for members only via REF QSL, BP 2129, F-37021 Tours Cedex, France	J3	QSL Bureau, Box 290, St. George's, Grenada, Windward Islands
		FK	Cards for members only may be sent via ARANC, Box 3956, Noumea, New Caledonia	J6	St. Lucia ARC, Box 489, Castries, St. Lucia, Windward Islands
		FO	Radio Club of French Polynesia, BP 5006, Pirae, Tahiti, French Polynesia	J7	Dominica Amateur Radio Club, Box 389, Roseau, Dominica, Windward Islands
		FY	Cards for members only via REF QSL, BP 2129, F-37021 Tours Cedex, France	J8	QSL Bureau, Box 142, Kingstown, St. Vincent, Windward Islands
		G	or Radio Club de Guyane, Box 508, F-97300 Cayenne, French Guiana	LA-LJ	Norsk Radio Relae Liga, Box 21, Refstad, N-0513 Oslo 5, Norway
		GD	RSGB QSL Bureau, Box 1773, Potters Bar, Herts EN6 3EP, England, U.K.	LU	Radio Club Argentina, Box 97, Correo Central, 1000 Buenos Aires, CF, Argentina
		GI	RSGB, c/o G.W. Ripley GD3AHV, "Corea Bungalow", Ronague Road, Ballasalla, Isle of Man, U.K.	LX	QSL Bureau, 25 rue A. Munchen, L-2172 Luxembourg, Luxembourg
		GH,GJ	RSGB, c/o Ed-Mar 1 Onslow Drive, New Gransha Road, Bangor BT19 7HQ, Northern Ireland, United Kingdom	LZ	Central QSL Bureau, Box 830, Sofia, Bulgaria
			RSGB, c/o H.J. Chater GJ2LU, 106 Route Bouillon, St. Helier, Jersey		

QSL BUREAUS

OA	Radio Club of Peru, Box 538, Lima 100, Peru	VE0,VE1,VY2	Donald Welling, VE1WF, Box 51 St. John, NB, Canada E2L 3X1	YU	SRJ, Box 48, 11001 Belgrade, Yugoslavia
OD	ARAL QSL Bureau, Box 8888, Beirut, Lebanon	VE2	A.G. Daermen VE2IJ, 2960 Douglas Avenue, Montreal, Quebec, Canada H3R 2E3	YU1	SRS, Box 64, 11001 Belgrade, Yugoslavia
OE	OE VSV QSL Bureau, Theresienengasse 11, A-1180 Vienna, Austria	VE3	The Ontario Trilliums ARC VE3TOT, Box 157, Downsview, ON, Canada M3M 3A3	YU2	SRH, Dalmatinska 12, 41000 Zagreb, Yugoslavia
OH	SRAL QSL Bureau, Box 30, SF-00381 Helsinki, Finland	VE4	Adam Romanchuk, VE4SN, 26 Morrison St., Winnipeg, MB R2B 3V4	YU3	ZRS, Box 180, 61001 Ljubjana, Yugoslavia
OK,OL	Central Radio Club, Box 69, 11327 Prague 1, Czechoslovakia	VE5	B.J. Madsen VE5FX, 739 Washington Drive, Weyburn, Saskatchewan, Canada S4H 3C7	YU4	SR BIH, Box 61, 71001 Sarajevo, Yugoslavia
ON,OR	UBA, Box 400, B-8400 Oostende 1, WV, Belgium	VE6	N.F. Walthe VE6VW, Box 1890, Morinville, Alberta, Canada T0G 1P0	YU5	SRM, Box 14, 91001 Skopje, Yugoslavia
OX	EDR QSL Central, c/o Boerge Nielsen OZ7BW, Solbjergheedevej 76, DK-8355 Ny-Solbjerg, Denmark	VE7	Dennis Livesey VE7DK, 8309 - 112th Street, Delta, B.C., Canada V4C 4W7	YU6	SRCG, Vaka Djurovica 20, Box 12, 81001 Titograd, Yugoslavia
OY	OY-QSL Bureau, Box 1358, FR-110 Torshavn, Faroes (via Denmark)	VE8	Rolf Ziemann VE8RZ, 2 Taylor Road, Yellowknife, NWT, Canada XIA 2K9	YU7	SRV, Leninov trg 10, 21000 Novi Sad, Yugoslavia
OZ	EDR QSL Central, c/o Boerge Nielsen OZ7BW, Solbjergheedevej 76, DK-8355 Ny-Solbjerg, Denmark	VK1	QSL Bureau, GPO Box 600, Canberra, ACT 2601, Australia	YU8	SRK, Box 141, 38001 Pristina, Yugoslavia
PA-PI	Dutch QSL Bureau, Postbus 330, NL-6800 AH Arnhem, Netherlands	VK2	QSL Bureau, Box 73, Teralba, NSW 2284, Australia	YV	Radio Club Venezolana (IARU member), Box 2285, Caracas 1010-A, DF, Venezuela or ARV QSL Bureau, Box 3636, Caracas 1010-A, DF, Venezuela
PJ	Verona QSL Bureau, Box 3383, Willemstad, Curacao, Netherlands Antilles	VK3	Inwards - GPO Box 757G, Melbourne Vic 3001	ZB	Gibraltar ARS, Box 292, Gibraltar
PP-PY	LABRE/DR Box 07-0004, 70.359, Brasilia, DF, Brasil	VK4	Outwards - 38 Taylor St., Ashburton Vic 3147	ZC	Joint Signal Board Headquarters, British Forces Cyprus, BFPO 53, London GPO, England, U.K.
PZ	VRAS QSL Manager, Box 566, Paramaribo, Surinam	VK5	QSL Officer, GPO Box 638, Brisbane, Queensland 4001, Australia	ZD8	Ascension AR Relay League, Box 4127, Patrick AFB, Florida 32925, USA
P2	QSL Bureau, Box 141, Port Moresby, Papua New Guinea	VK6	QSL Bureau, Box 10092, Gouger Street, Adelaide, SA 5000, Australia	ZF	Cayman Radio Society, Box 1029, Grand Cayman, British West Indies
P4	Aruba Amateur Radio Club QSL Bureau, Box 2273, San Nicolas, Aruba	VK7	QSL Bureau, GPO Box F319 Perth, WA 6001, Australia	ZK1	QSL Bureau, Radio Station Rarotonga, Rarotonga, Cook Islands, New Zealand
R,U	Central Radio Club, Box 88, Moscow, USSR Moscow stations only: Moscow City Radio Club, Prospekt Vernadskogo 9/10, Moscow 117311, USSR	VK8	QSL Bureau, c/o H.G. Andersson VK8HA, Box 619, Humpty Doo, NT 0836, Australia	ZK2	QSL Bureau, Box 37, Niue, South Pacific
RB,UB,RT, UT,UY	QSL Bureau, Box 56, Kiev 252001, Ukraine, USSR	VK9,VK0	QSL Bureau, c/o Neil Penfold VK9NE, 2 Moss Court, Kingsley, WA 6026, Australia	ZL	NZART, Box 857, Wanganui, New Zealand
RC,UC	Chernobyl QSL Bureau, Box 17 Minsk 220012, Byelorussia, USSR	VO1,VO2	CRRL VO QSL Bureau, Box 6, St. John's, Newfoundland, Canada A1C 5H5	ZP	Radio Club Paraguayo, Casila de Correo 512, Asuncion, Paraguay
RD,UD	QSL Bureau, Box 165, Baku-Center 370000, Azerbaijan, USSR	VP2M	Montserrat Amateur Radio Society, Box 448, Plymouth, Montserrat	ZR-ZS	Cards for members only via SARL, Box 807, Houghton 2041, TV, Rep. of South Africa
RF,UF	QSL Bureau, POB 10, 38400 Kutaisi City, Georgia or GNRG, POB 123, Tbilisi 380004, Georgia or FWWRC, POB 1, Tbilisi 380002, Georgia	VP2V	B.V.I. QSL Bureau, Box 653, Road Town, Tortola, British Virgin Islands, Leeward Islands	Z2	RSZ QSL Manager, Box 2377, Harare, Zimbabwe
RG,UG	QSL Bureau, Prospekt Ojoniidze 5, Yerevan 375000, Armenia, USSR	VP5	TACARS, Box 108, Providenciales, Turks and Caicos Islands, British West Indies	3A	ARM, Box 2, MC-98001 Monaco Cedex or c/o Director Generale des Telecoms, 16 Boulevard de Suisse, Monaco
RH,UH	QSL Bureau, Box 224, Ashkhabad 744014, Turkmen, USSR	VP8	Falkland Islands Radio Club, Box 260, Mount Pleasant Airport, Falkland Islands	3B6-3B9	Mauritius ARS, Box 467, Port Louis, Mauritius
RM,UM	QSL Bureau, Box 392, Frunze 720055, Kirghiz, USSR	VP9	Cards for British Antarctic Stations (BAT) may be sent c/o GPO Stanley, Falkland Islands	3DA	Radio Society of Swaziland, Box 64, Manzini, Swaziland
RP,UP	QSL Bureau, Box 1000, Vilnius 232001, Lithuania, USSR	VQ9	Radio Society of Bermuda, Box HM 275, Hamilton HM AX, Bermuda	3D2	QSL Bureau, Box 184, Suva, Fiji Islands
RR,UR	QSL Bureau, Box 125, Tallinn 200090, Estonia, USSR	VS6	QSL Bureau, Diego Garcia ARC, Box 16, NSF, FPO San Francisco 96685, USA	4K	Central Radio Club, Box 88, Moscow, USSR
SA-SM	SSA, Ostmarksgatan 43, S-12342 Farsta, Sweden	V7	Cards for members only via HARTS, Box 541, Hong Kong	4S	Radio Society of Sri Lanka, QSL Manager, Box 907, Colombo, Sri Lanka
SN-SQ	PZK QSL Bureau, skrytka pocztowa 320, 00-950 Warsaw 1, Poland	VY1	Amateur Radio Society of India, (IARU member), ARA, Box 4015, New Delhi 110017, India	4U1ITU	International ARC, Box 6, CH-1211 Geneva 20, Switzerland
ST,6T,6U	Sudan Radio Club, Box 80, El Morada, Omdurman, Republic of the Sudan	VY2	CRRL QSL Bureau, W.L. Champagne VY1AU, Box 4597, Whitehorse, YT, Canada Y1A 2R8	4X,4Z	IARC, Box 17600 Tel Aviv 61176, Israel
SU	EARS, Ramsis Bldg., Floor 13 Flat 10, 6 Ramsis Square, Cairo 11111, Egypt	V2	QSL Bureau, Box 1111, St. John's, Antigua, Leeward Islands	5A	QSL Bureau, Box 372, Tripoli, Libya
SV	RAAG, Box 3564, GR-10210 Athens, Greece	V7	Kwajalein Amateur Radio Club, Box 444, APO San Francisco 96555, USA	5B	Cyprus Amateur Radio Society, Box 1267, Limassol, Cyprus
S2	Bangladesh Amateur Radio League, GPO Box 3512, Dacca, Bangladesh	XE	FMRE (IARU member), Box 907, 06000 Mexico, DF, Mexico	5N	Nigerian Amateur Radio Society, Box 2873, Lagos, Nigeria
S7	QSL Bureau, c/o R.C. Barnes S79D, Box 191, Victoria Mahe, Seychelles	XX	Cards for members only via HARTS, Box 541, Hong Kong	5R	QSL Bureau, Box 587, Tananarive, Madagascar
S8	Transkei Amateur Radio League, Box 821, Umtata, Transkei	YB-YH	ORARI National QSL Bureau, Box 96, Jakarta, Indonesia 10002	5W	Western Samoa Radio Club, QSL Bureau Secretary, Box 1069, Apia, Western Samoa
TA-TC	TRAC QSL Bureau, Box 109, Sirkeci 34432, Istanbul, Turkey or QSL Bureau, Box 811, Izmir 35212, Turkey	YB2-YH2	Daerah Istimewa Yogyakarta, Box 27, Yogyakarta 55001, Indonesia	5Z	RSK QSL Bureau, Box 45681, Nairobi, Kenya
TF	IRA QSL Bureau, Box 1058, 121 Reykjavik, Iceland	YB3-YH3	Central Java, Northern Area: QSL Bureau, Box 88, Semarang 50001, Indonesia	6W	ARAS, Box 971, Dakar, Senegal
TG	CRAG, Box 115, Guatemala City, Guatemala	YB4-YH4	Central Java, Southern Area: QSL Bureau, Box 73, Solo, Indonesia	6Y	JARA QSL Manager, Red Cross Building, 76 Arnold Rd., Kingston 5, Jamaica
TE TI	Radio Club of Costa Rica, Box 2412, San Jose 1000, Costa Rica	YB6-YH6	QSL Bureau, Box 59, Surabaya, Indonesia	7J	JARL, 1-14-2 Sugamo, Toshima, Tokyo, 170 Japan
TK,FC	Cards for members only via REF QSL, BP 2129, F-37021 Tours Cedex, France	YB8-YH8	c/o Johannes Titaley YB4GA, GG Sumatra B-5 Palembang, Indonesia	7P	Lesotho ARS, Box 949, Maseru 100, Lesotho
TN	QSL Bureau, Box 2239, Brazzaville, Congo	YI	QSL Bureau, Box 666 Medan, Nort Sumatera, Indonesia	7Q	c/o H.Y. Bvumbwe 7Q7AE, Box 24, Blantyre, Malawi
TR	Association Gabonaise des Radio-Amateurs, Box 1826, Libreville, Gabon	YJ	ORARI Daerah Jakarta, P.O. Box 84, JKWK, Jakarta 10001, Indonesia	7X	ARA QSL Service, Box 2, Algiers, Algeria
TU	Association des Radio Amateurs Ivoiriens, 01 BP 2946, Abidjan 01, Ivory Coast	YK	Baghdad Radio Club, Box 7361, Baghdad, Iraq	8P	Radio Society of Barbados, Box 814E, Bridgetown, Barbados
TV-TX	Cards for members only via REF QSL, BP 2129, F-37021 Tours Cedex, France	YL	Vanuatu Amateur Radio Society, Box 50, Port Vila, Vanuatu	8R	c/o Syd. C.H. D'Ornellas, 110 Barrack Street, Kingston, Georgetown, Guyana
T7	ARRSM QSL Bureau, Box 77, RSM-47031 Rep. of San Marino (Italy)	YN,HT	Technical Institute of Radio, Box 245, Damascus, Syria	9H	MARL (IARU member), Box 575, Valletta, Malta or AREC, Box 114, Valletta, Malta
VE,VO,VY	CRRL Central QSL Bureau, Box 51, St. John, NB, Canada E2L 3X1 Outgoing only: CARF National QSL Bureau, Box 66, Islington, Ontario, Canada	Y0	QSL Bureau, Box 164, Riga 226098, Latvia, USSR	9H4	c/o Eric Rogers 9H4G, Dar Ghall-Kwiet, Ghajn Melet St., Zebbug, Gozo, Malta
		Y5	QSL Bureau, Box 925, Managua, Nicaragua or Mike Murciano, Box 140902, Coral Gables, Florida 33114, USA or Alberto Matamoros, Box 1474, Managua, Nicaragua	9I,9J	Radio Society of Zambia, Box 20332, Kitwe, Zambia
			Federatia Romana de Radioamatorism, Box 22-50, R-71100 Bucharest, Romania	9K	Kuwait Amateur Radio Society, Box 5240, Code 15053 Safat, Kuwait
			Cards for members only via CRAS, Box 517, San Salvador, El Salvador	9L	Sierra Leone ARS, Box 10, Freetown, Serra Leone
				9M2,9M6, 9M8	MARTS, Box 10777, 50724 Kuala Lumpur, Malaysia
				9V	SARTS, GPO Box 2728, Singapore 9047
				9Y	Trinidad & Tobago Amateur Radio Society, Box 1167, Port-of-Spain, Trinidad
					The Yasm Foundation, Box 2025, Castro Valley, CA 94546, USA

Country	Zone	Prefix	Country	Zone	Prefix	Country	Zone	Prefix
Alghanistan	21	YA	Gozo (Malta)	15	9H4	Pakistan	21	AP
Agalega Is.	39	3B6	Graham Land	13	LU,VP8	Palmyra Is.	31	KH5
Aland Is.	15	0H0	Greece	20	SV	Panama	7	HP
Alaska	15	KL7	Greenland	40	0X	Pantelleria Is.	33	IH
Albania	15	ZA	Guadeloupe	8	FG	Papua New Guinea	28	P2
Algeria	33	7X	Guam	27	KH2	Paraguay	11	ZP
Amsterdam & St. Paul Is.	39	FT8Z	Guantanamo Bay	8	KG4	Peru	10	OA
Andaman & Nicobar Is.	26	VU7	Guatemala	7	TG	Philippines	27	DU-DZ 4F
Andorra	14	C3	Guernsey, Balliwick of	14	GU	Pitcairn Is.	32	VR6
Angola	36	D2,D3	Guinea-Bissau	35	J5	Poland	15	SP
Aran Is.	14	EJ0	Guinea	35	3X	Portugal	14	CT
Argentina	13	LU	Guyana	9	8R	Prince Edward Is. (Canada)	5	VE1,V2
Aruba	9	P4				Prince Edward & Marion Is.	38	ZS2
Ascension Is.	36	ZD8	Hawaii	31	KH6	Puerto Rico	8	KP4
Auckland Is.	32	ZL	Haiti	8	HH			
Australia	29,30	VK	Heard Is.	39	VK0			
Austria	15	OE	Honduras	7	VR			
Aves Is.	8	VV	Hong Kong	24	V66			
Azores Is.	14	CU	Howland Is.	31	KH1			
			Hungary	15	HA,HG			
Bahama Is.	8	C6						
Bahrain	21	A9	Iceland	40	TF			
Baker Is.	31	KH1	India	22	VU			
Balearic Is.	14	EA6	Indonesia	28	VB,YC,YD			
Banaba	31	T33	Iran	21	EP			
Bangladesh	22	S2,S3	Iraq	21	YI			
Barbados	8	8P	Ireland	14	EI	Sabah	28	9M6
Belgium	14	ON	Ischia	15	JC	Saba Is.	8	PJ
Belize	7	TY	Isle of Man	14	GD	St. Barthelemy	8	FJ
Benin	35	TY	Israel	20	4X,4Z	St. Brandon Is.	39	3B7
Bermuda Is.	5	VP9	Italy	15	I-Z	St. Helena Is.	36	ZD7
Bhutan	22	AP	Ivory Coast	35	TU	St. Martin Is.	8	FS
Bonaire	10	CP				St. Peter & St. Paul Rocks	11	PV0
Bosnia & Herzegovina	15	T91-T9Z,4N4,YT4,YU4,YZ4	Jamaica	8	6Y	St. Pierre & Miquelon Is.	5	FP
Botswana	38	A2	Jan Mayen Is.	40	JX	Salpan Is.	27	KH0
Bouvet Is.	38	3Y	Japan	25	JA-JS,7J,8J	Samoa, American	32	KH8
Brazil	11	PP-PY	Japan, U.S. Personnel in	25	KA	Samoa, Western	32	5W
Brunei	28	V8	Jarvis Is.	31	KH5	San Andres & Providencia Is.	7	HK0
Bulgaria	20	LZ	Jersey	14	GJ	San Felix Is.	12	CE0X
Burkina-Faso	35	XT	Johnston Is.	31	KH3	San Marino	15	T7
Burundi	36	9U	Jordan	20	JY	Sao Tome & Principe	36	S9
			Juan de Nova Is.	38	FR	Sarawak	28	9M8
			Juan Fernandez Is.	12	CE0Z	Sardinia	15	9M
						Saudi Arabia	21	HZ,7Z
Cambodia	26	XU				Scotland	14	GM
Cameroon	36	TJ	Kenya	37	5Z	Senegal	35	6W
Campbell Is.	32	ZL	Karqueken Is.	39	FT8X	Seychelles	39	S79
Canada	1,2,3,4,5	VE	Kernadec Is.	32	ZL	Sicily	15	IT
Canary Is.	33	EA8	Kiribati	31	D4	Sierra Leone	35	9L
Cape Verde	35	35	Korea	25	HL,HM	Singapore	28	9V
Capri Is.	15	IC	Kure Is.	31	KH7	Sint Eustatius	8	PJ
Cayman Is.	8	ZF	Kuwait	21	9K	Sint Maarten Is.	8	PJ
Central African Republic	36	TL				Slovenia	15	YT3,YU3,YZ3
Ceuta & Melilla (Spain)	33	EA9	Labrador (Canada)	2	VO2	Solomon Is.	28	H4
Chad	36	TT	Laccadive Is.	22	VU7	Somalia	37	SV
Chagos	39	VO9	Lampedusa Is.	33	IG	South Africa, Rep. of	38	ZR,ZS
Chatham Is.	32	ZL	Laos	26	XW	South Georgia Is.	13	V8
Chile	12	CE	Latvia	15	UQ,YL	South Orkney Is.	13	LU,VP8
China	23,24	8	Lebanon	20	OD	South Sandwich Is.	13	LU,VP8
Christmas Is.	29	VK9X	Leeward Is.			South Shetland Is.	13	CE9,LU,VP8
Clipperton Is.	7	FO	Anguilla	8	VP2E	Spain	14	EA
Cocos Is.	7	T19				Sri Lanka	22	4S
Cocos (Keeling) Is.	29	VK9Y	Antigua	8	V2	Sudan	34	ST
Colombia	9	HK	British Virgin Is.	8	VP2V	Surinam	9	PZ
Commonwealth of Independent States	16,17,18,19	UA,UN,UV,UW,UZ	Montserrat	8	VP2M	Svalbard Is.	40	JW
Armenia	21	EKA-EKZ UG	St. Kitts, Nevis	8	Y4	Swan Is.	7	HR0
Azerbaijan	21	4JA-4JJ UD	Liberia	38	7P	Swaziland	38	3D0A
Belarus	16	EUA-EWZ UC	Libya	35	EL,5L	Sweden	14	SJ-SM
Kazakh.	17	UL	Liechtenstein	14	H80	Switzerland	14	HB
Kyrgyzstan	17	UM	Lithuania	15	UP,LY	Syria	20	YK
Moldova	16	ERA-ERZ UO	Lord Howe Is.	30	VK2			
Tajikistan	17	EYA-EYZ UJ	Luxembourg	14	LX	Taiwan	24	BV
Turkmenistan	17	EZA-EZZ UH				Tanzania	37	5H3
Ukraine	16	UUA-UZZ UB,URA-UTZ EMA-	Macao	24	XX	Thailand	26	HS
						Tinian	27	KH0
Uzbekistan	17	EOZ UY	Macedonia	15	Z3A-Z3Z	Togo	35	SV
			Macquarie Is.	30	VK0	Tokelau Is.	31	ZK3,ZM7
Comoros	39	D6	Madagascar	39	5R	Tonga Is.	32	A3
Congo	36	TN	Maddalena Is.	15	5M	Transterke	38	S8
Cook Is.	32	3D2	Madeira Is.	33	CT3	Trindade & Martim Vaz Is.	11	PV0
Corsica	35	ZK1	Malawi	37	7Q	Trinidad & Tobago Is.	9	9Y
Costa Rica	7	TK	Malaysia, West	28	9M2	Tristan da Cunha Is.	38	ZD9
Crete	20	SV9	Maldives Is.	22	8Q	Tromelin Is.	39	FR
Croatia	15	YT2,YU2,YZ2	Mal	9	TZ	Tunisia	33	3V
Crozet Is.	39	FT8W	Melpelo	35	HK0	Turkey	20	TA-TC
Cuba	8	CM,CO	Malta	15	9H	Turks & Caicos Is.	8	VP5
Curacao	9	PJ	Maly Vyotskij Is.	16	4J	Tuscan Archipelago	15	IA
Cyprus	20	ZK,5B	Manihiki	32	ZK1	Tuvalu Is.	31	T2
Czechoslovakia	15	OC,5L	Mariana Is.	27	KH0			
			Market Reef	15	0J0	Uganda	37	5X
			Marshall Is.	31	V7	United Arab Emirates	21	A6
Denmark	14	OZ	Martinique	8	FM	United Nations	5,14	4U
Djibouti	37	J2	Mauritania	35	5T	United States of America	1,3,4,5,31	A,K,N,W
Dodecanese Is.	20	SV5	Mauritius Is.	39	3BB	Uruguay	13	CX
Dominican Republic	8	HI	Mayotte	39	FH			
			Mexico	6	XE,XF			
Easter Is.	12	CE0A	Midway Is.	15	KH4			
Ecuador	10	HC	Minami-Tori-Shima	27	JD1	Vanuatu	32	YJ
Egypt	34	SU	Monaco	14	3A	Vatican City	15	HV
El Salvador	7	SV	Mongolia	23	JT	Venezuela	9	VV
England	14	G	Morocco	33	CN	Vietnam	26	XV
Equatorial Guinea	36	3C	Mozambique	37	C8,C9	Virgin Is. (British)	8	VPV2
Estonia	15	UR,ES	Myanmar	26	XZ	Virgin Is. (U.S.)	8	KP2
Ethiopia	37	ET						
Faroe Is.	14	OY	Namibia	38	V5	Wake Is.	31	KH9
Falkland Is.	13	YB8	Nauru	31	C2	Wales	14	FW
Fed. States of Micronesia	27	V6	Navassa Is.	8	KP1	Wallis & Futuna Is.	38	FW
Fernando de Noronha	11	PY0	Nepal	22	9N	Walvis Bay	38	Z59
Fiji Is.	32	3D2	Netherlands	14	PA-PI	Western Sahara	33	S0
Finland	15	OH	Netherlands Antilles	8,9	PJ	Willis Is.	30	VK9Z
France	14	FR	New Caledonia	32	FK	Windward Is.		
French Guiana	9	FY	Newfoundland (Canada)	5	VO1	Dominica	8	J7
French Polynesia	31,32	FO	New Zealand	32	ZL	Grenada	8	J3
			Nicaragua	7	YN	St. Lucia	8	J6
			Niger	35	SU	St. Vincent, Grenadines	8	J8
			Nigeria	35	5N			
Gabon	36	TR	Niue Is.	32	ZK2	Yemen	21	70
Galapagos Is.	10	HC8	Norfolk Is.	32	VKN9	Yugoslavia	15	YU
Gambia, The	35	C5	Northern Ireland	14	GI	Yukon Territory (Canada)	1	VY1
Georgia	21	4LA-4LZ UD	Norway	14	LA-LJ			
Germany	14	DA-DP						
Ghana	35	9G	Opasawara Is.	27	JD1	Zaire	36	9Q
Gibraltar	14	ZB2	Okinawa (Ryukyu Is.)	25	JR6	Zambia	36	9I,9J
Glorioso Is.	39	FR	Oman	21	A4	Zanzibar (Tanzania)	37	5H1
Gough Is.	38	ZD9				Zimbabwe	38	9Z

INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in identifying the country when DX calls are heard.

AA-AL	United States of America	KG4	Guantanamo Bay	V3	Belize
AP	Pakistan	KH1	Baker & Howland Is.	V4	St. Kitts and Nevis
AQ	Botswana	KH2	Guam	V5	Namibia
A3	Tonga	KH3	Johnston Is.	V6	Fed. States of Micronesia
A4	Oman	KH4	Midway Is.	V7	Marshall Is.
A5	Bhutan	KH5	Jarvis & Palmyra Is.	V8	Brunei
A6	United Arab Emirates	KH6	Kingman Reef	V9	Venda
A7	Qatar	KH7	Kure Is.	W	United States of America
A9	Bahrain	KH8	American Samoa	XE, XF	Mexico
B	China	KH9	Wake Is.	XT	Revilla Gigedo Is.
BV	Taiwan	KH0	Mariana Is.	XU	Burkina Faso
CE	Chile	KL7	Alaska	XV	Cambodia
CE9AA-AM	Chilean Antarctica, Tierra de O'Higgins, Palmer Peninsula, Graham Land	KP1	Norassa Is.	XW	Laos
CE9AN-AZ	South Shetland Is.	KP2	Virgin Is.	XX	Macao
CE9A	Easter Is.	KP4	Puerto Rico	XZ	Myanmar
CE9X	San Felix Is.	KP5	Desecho Is.	YA	Alghanistan
CE9Z	Juan Fernandez Is.	LA-LJ	Norway	YB, YC, YD	Indonesia
CM, CO	Cuba	LU	Argentina	YI	Iraq
CN	Morocco	LX	Argentine Antarctica	YJ	Vanuatu
CP	Bolivia	LY	Luxembourg	YK	Syria
CT	Portugal	LZ	Lithuania	YL	Latvia
CT3	Madeira Is.	N	Bulgaria	YU	Nicaragua
CU	Azores Is.	OA	United States of America	YV	Romania
CX	Uruguay	OD	Peru	YS	El Salvador
C2	Nauru	OE	Lebanon	YT2, YU2, YZ2	Croatia
C3	Andorra	OF	Austria	YT3, YU3, YZ3	Slovenia
C5	The Gambia	OH	Finland	YT4, YU4, YZ4	Bosnia & Herzegovina
C6	Bahamas	OH0	Aland Is.	YV	Venezuela
C8, C9	Mozambique	OJ0	Market Reef	YV0	Aves Is.
DA-DP	Germany	OK, OL	Czechoslovakia	ZA	Albania
DU, DW	Philippines	ON	Belgium	ZB2	Gibraltar
D2, D3	Angola	OX	Greenland	ZD7	Cyprus (Br. Forces)
D4	Cape Verde	OZ	Faroe Is.	ZD8	Ascension Is.
D6	Comoros	PA-PI	Netherlands	ZD9	Tristan da Cunha & Gough Is.
EA-EH	Spain	PJ	Netherlands Antilles	ZF	Cayman Is.
EAB	Balearic Is.	PP-PY	Brazil	ZK1	Cook & Manihiki Is.
EAB	Canary Is.	PV0	Fernando de Noronha Is.	ZK2	Niue Is.
EAB	Ceuta & Melilla	PV0	St. Peter & St. Paul Rocks	ZK3, ZM7	Tokelau Is.
EI	Ireland	PZ	Trinidad & Martin Vaz Is.	ZL	New Zealand & Auckland, Campbell, Chatham, Kermadec Is.
EJ0	Aran Is.	P2	Surinam	ZL5	New Zealand Antarctica
EK	Armenia	P4	Papua New Guinea	ZP	Paraguay
EL	Liberia	R	Aruba	ZR, ZS1	Republic of South Africa
EMA-EQZ	Ukraine	SJ-SM	Union of Soviet Socialist Rep.	ZS	South African Antarctica
EP	Iran	SP	Sweden	ZS2	Prince Edward & Marion Is.
ER	Moldova	ST	Poland	ZS9	Walvis Bay
ES	Estonia	SU	Sudan	Z2	Zimbabwe
ET	Ethiopia	SV	Egypt	Z3	Macedonia
EU	Belarus	SV5	Dodecanese Is.	1A0	Sovereign Military Order of Malta
EY	Tajikistan	SV9	Crete	1S	Spratty Is.
EZ	Turkmenistan	S2, S3	Bangladesh	3A	Monaco
F	France	S4	Ciskei	3B6	Agalega Is.
FG	Guadeloupe	S7	Seychelles Is.	3B7	St. Brandon Is.
FH	Mayotte	S8	Trankeke	3B8	Mauritius Is.
FJ	St. Barthelemy	S9	Sao Tome & Principe	3B9	Rodriguez Is.
FK	New Caledonia	S0	Western Sahara	3C	Equatorial Guinea
FM	French Polynesia, Clipperton Is.	TA, TC	Turkey	3D2	Fiji Is.
FO	French Polynesia, Clipperton Is.	TF	Iceland	3D7	Conway
FP	St. Pierre & Miquelon Is.	TG	Guatemala	3D8	Rotuma
FR	Glorioso, Juan de Nova, Reunion, Tromelin Is.	TI	Costa Rica	3D9	Swaziland
FS	St. Martin Is.	TJ	Cocos Is.	3V	Tunisia
F8W	Crozet Is.	TK	Cameroon	3X	Guinea
F8X	Kerguelen Is.	TL	Corsica (France)	3Y	Bouvet Is.
F8Y	French Antarctica	TN	Central African Republic	3Y	Norwegian Antarctica
F8Z	Amsterdam & St. Paul Is.	TO	Congo	4F	Philippines
FW	Wallis & Futuna Is.	TP	Gabon	4J	Maly Vysotskiy Is.
FY	French Guiana	TT	Chad	4J	Azerbaijan
G	England	TU	Ivory Coast	4K1	Russian Antarctica
GD	Isle of Man	TY	Benin	4N4	Bosnia-Herzegovina
GI	Northern Ireland	TZ	Mali	4S	Georgia
GJ	Jersey	T2	Tuvalu	4S	St. Lanka
GM	Scotland	T3	Kiribati	4U	United Nations
GU	Bailiwick of Guernsey	T5	Somalia	4X, 4Z	Israel
HA	Wales	T7	San Marino	5A	Libya
HB	Hungary	TS	Bosnia-Herzegovina	5B	Cyprus
H8B	Switzerland	UA, UN, UV, UW, UZ	Russian Federation CIS	5B1	Zanzibar (Tanzania)
HC	Liechtenstein	UB, UT, UV	Ukraine CIS	5H3	Tanzania
HC8	Ecuador	UC	Belarus CIS	5L	Liberia
HG	Galapagos Is.	UD	Azerbaijan CIS	5N	Nigeria
HH	Hungary	UE	Georgia	5R	Madagascar
HI	Dominican Republic	UF	Armenia CIS	5T	Mauritania
HK	Colombia	UG	Turkmenistan CIS	5V	Niger
HK0	Bajo Nuevo, Malpelo, San Andres & Providencia Is.	UH	Uzbekistan	5W	Western Samoa
HLHM	Korea	UI	Moldova CIS	5X	Uganda
HP	Panama	UJ	Lithuania	5Z	Kenya
HR	Honduras	UK	Latvia	6W	Senegal
HR0	Swan Is.	UQ	Ukraine	6Y	Jamaica
HS	Thailand	URA-UTZ	Ukraine	7J-7N	Japan
HV	Vatican City	UUA-UZZ	Ukraine	7O	Yemen
HZ	Saudi Arabia	VE	Canada	7P	Lesotho
H4	Solomon Is.	VK	Australia	7Q	Malawi
H5	Bophuthatswana	VK2	Lord Howe Is.	7X	Agaria
I-Z	Italy	VK9	Tasmania	7Z	Saudi Arabia
IA	Tuscan Archipelago	VK9N	Norfolk Is.	8J	Japanese Antarctica
IC	Capri & Ischia Is.	VK9Y	Christmas Is.	8P	Barbados
IG	Lampedusa Is.	VK9Z	Cocos (Keeling) Is.	8R	Maldives Is.
IH	Pantelleria Is.	VK0	Willis Is.		Guyana
IM	Maddalena Is.	VO1	Heard Is., Australian Antarctica	9G	Ghana
IS	Sardinia	VO2	Newfoundland (Canada)	9H	Malta
IT	Sicily	VP2	Leeward & Windward Is.	9I, 9J	Gozo (Malta)
JA, JS	Japan	VP2E	Anguilla	9K	Kuwait
JD1	Ogasawara Is., Minami-Tori-Shima	VP2M	Montserrat	9L	Sierra Leone
JR6	Okinawa (Ryukyu Is.)	VP2V	British Virgin Is.	9M2	West Malaysia
JT	Mongolia	VP8	Turks & Caicos Is.	9M6	Sarawak
JW	Svalbard Is.		Falkland, S. Georgia, S. Orkney, S. Sandwich, S. Shetland Is., Graham Land	9N	Nepal
JX	Jan Mayen Is.	VP9	Bermuda Is.	9Q	Zaire
JY	Jordan	VP9	Chagos	9U	Burundi
J2	Djibouti	VR6	Pitcairn Is.	9V	Gingapore
J3	Grenada	VSB	Hong Kong	9X	Rwanda
J5	Guinea-Bissau	VU	India	9Y	Trinidad & Tobago
J6	St. Lucia	VU7	Andaman & Nicobar Is.		
J7	Dominica	VY1	Laccadive Is.		
J8	St. Vincent and the Grenadines	V2	Canadian Yukon Territory		
K	United States of America		Antigua, Barbuda		
KA	U.S. Personnel in Japan				
KC4	U.S. Antarctica				

RADIO AMATEURS OPERATING WITH RECIPROCAL LICENSES

Foreign

A2/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 A4/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 A7/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 BV/JPIRIW Kenichi Hoshono, P.O. Box 26-64, Taipei, Taiwan, Republic of China
 CE0/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 CE0/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 CU/KB4JW Randolph H. Brown, Box 2002, APO New York 09406, USA
 C6/WA20WL Leslie R. Hinds, Lucayan Towers North, Box F-285, Freeport, GB, Bahama Islands
 DU/KB2GRH James F. Adams, Box 180, Cotabato City 9600, Philippines
 DU/K4YT Karl Renz, U.S. Embassy, Manila, APO San Francisco 96528, USA
 DU/KZ5Z Jonathan V. Lofton, American Embassy - ATO, Manila, Philippines
 DU/WB5LBJ Clarence E. Green, 190 R. Mapa Street, Tabucan, Mandurriao, Iloilo City 5901, Philippines
 DU/KD6TB Mark T. Sherbert, CCPO, Box 31, FPO San Francisco 96651, USA
 DU/N6XRU William E. Wanamaker, USAID/Manila, APO San Francisco 96528, USA
 DU/N7ET Dale Law, Silliman University, Dumaguete City 6501, Philippines
 DU/N7GCN Martha A. Ming, APTS General Delivery, Baguio City 2600, Philippines
 DU/N7GCO James M. Ming, APTS General Delivery, Baguio City 2600, Philippines
 DU4/N7MUX Jerry R. Dunham, P.O. Box 121, Legazpi City 4500, Philippines
 DW/K47SFR Daniel N. Law, Silliman University, Dumaguete City 6501, Philippines
 EA/K44WUM Sharon Cook, Box 2-247, NAVSTA Rota, FPO New York 09540, USA
 EA/W5YZY W.E. Day, Urb La Huerta, C/Laurel 1, 03112 Tangel (Alicante)
 EA5/G0NGC R.J. Allwood, Apto. 100-D3, Colonia Ducal, Playa de Gandia, Gandia, Valencia, Spain
 EA6/G6ZY Stanley Ingram, Box 89, Santa Eulalia, Ibiza, Balearic Islands, Spain
 EA7/N5OKR Grey R. Altig, PSC 818 Box 1147, FPO AE 09644-5000
 F/G2BNI Douglas B. Drage, The Anchorage, Les Vignes du Bessard, F-74320 Sevrier, France
 F/G0KSW Karl A. Barth, 9 Square Marcel Proust, F-78120 Rambouillet, France
 F/WU2J Byron Weaver, 8 Rue la Perouse, F-66290 Cerbere, France
 FH/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 FR/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 FR/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 FS/FG5EM Morton Bardfield, QSL via W3HNK
 FS/FG5EO Walter Brenner, QSL via DJ0FX
 FS/FG0VG Walter Brenner, QSL via DJ0FX
 FY/KD3FK Beth L. Weaver, No. 35 bis Cit Cesaire, 97300 Cayenne, French Guiana
 FY/N4QDX Jay R. Weaver, No. 35 bis Cite Cesaire, 97300 Cayenne, French Guiana
 G/KB4IYK Daniel M. Bergeron, 14 Sandford Gardens, High Wycombe, Bucks HP11 1QT, England, UK
 G/KK6DF Patricia R. Civita, 1 Crossway, Lewes, Sussex BN7 1NE, England, UK
 G/KK6EE Vittorio G. Civita, 1 Crossway, Lewes, Sussex BN7 1NE, England, UK
 G/N0BZ Thomas John Tobiasen, Applegarth, Manse Lane, Knaresboro, N. Yorks HG5 8LF, England, UK
 GW0N2ATT Taizo Arakawa, 5 St. Johns Close, Hawarden, Deeside, Clwyd, CH5 3QJ, U.K.
 HA/K6EID Philip W. Finkle, 3353 Forest Creek Drive, Marietta, GA 30064-2441, U.S.A.
 HB0/HB9NL Frank A. Acklin, Sonnenrainstr. 27 CH-6233 Bueron, Switzerland
 HB9/CU2BR Alfred A. Potthoff, Berg Str. 117, CH-8707 Uetikon am See, Switzerland
 HB9/NIFEY Joseph S. Johnson, Alte Lanstr. 17, CH-8802 Kilchberg, Switzerland
 HC/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 HC/KA9SNM Betty F. Glass, Box 52, Santo Domingo, Ecuador
 HC/KA0SYR Jose Wells J., Box 52, Santo Domingo, Ecuador
 HC/KA0TBS Sylvia Smith D., Box 52, Santo Domingo, Ecuador
 HI/N9HBQ Robert Boomer, Paseo de la Laguna 10, Costambar, Puerto Plata, RD, Dominican Republic
 HI/VE3LKU Douglas G. Crowe, Box 1157, Santo Domingo, Dominican Republic
 HK/CE3FQT Carlos Acevedo Alvarado, Box 1025, Bogota, Colombia
 HK/CE3JWE Jaime E. Bobillier, Box 91294, Bogota, Colombia
 HK/HB0DX Gene Shannon B., Box 27744, Bogota, Colombia
 HK/KC4AN Galen Ray Stutzman, Box 27744, Bogota, Colombia
 HK/K0LWJ Raymond S. Rising, Instituto Linguistico deVerano, Box 27744, Bogota, Colombia
 HK/N4HUF Macon G. Hare, Calle 43 31-29, Villavicencio, Colombia
 HK/SM5HV C. Otto Ringheim, Box 2195, Bucaramanga, Colombia
 HK/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 HK/WA2ITL Jonathan Rathjen, Instituto Linguistico de Verano, Box 27744, Bogota, Colombia
 HK/WA3HOV Serge S. Krikorian Jr., Box 27744, Bogota, Colombia
 HK/WB0DTP Henry L. Cook, Liga Colombiana de Radioaficionados, Box 584, Bogota, Colombia
 HK0/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 HK5/CP4XA Jean Luc Klein, P.O. Box 6149, Cali, Columbia
 HK5/HJ3UZH Alejo Piamonte, P.O. Box 6149, Cali, Columbia
 HK5/HJ3WBY Luis Jesus Maya, P.O. Box 6149, Cali, Columbia
 HK5/HJ6WVA Carlos Felipe Forero, P.O. Box 6149, Cali, Columbia
 HK5/HK3AGA Alvaro Cohen, P.O. Box 6149, Cali, Columbia
 HK5/HK3KK Diego Penaloza, P.O. Box 6149, Cali, Columbia
 HK5/HK3MOC William Lenis, P.O. Box 6149, Cali, Columbia
 HK5/HK3NPE Rene A. Orozco, P.O. Box 6149, Cali, Columbia
 HK5/HK4LPI Maria Estela De Escobar, P.O. Box 6149, Cali, Columbia
 HK5/HK6BJR Luis Enrique Patiro, P.O. Box 6149, Cali, Columbia

Foreign

HK5/HK60QL Gonzalo Mejia, P.O. Box 6149, Cali, Columbia
 HK5/HK8COO Edmund Burbano, P.O. Box 6149, Cali, Columbia
 HK5/HK8NZG Edgardo Vera, P.O. Box 6149, Cali, Columbia
 HK5/HK9CCT Fabio Quintero, P.O. Box 6149, Cali, Columbia
 HK5/KB4YGO Arnold Pessoa, P.O. Box 6149, Cali, Columbia
 HK5/KC4NEB Hernando Cardona, P.O. Box 6149, Cali, Columbia
 HK5/N6NVK Alfonso Pastrana, P.O. Box 6149, Cali, Columbia
 HR/TI2LAK Dr. Luis Antonio Altamar J., P.O. Box 71690, San Jose, Costa Rica
 HR/WB5YWU Gary S. Kesler, Minas de Oro, Comayagua, Honduras
 HR/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 HR2/JA6WFM Hiro Nakamura, A Postal 2039, San Pedro Sula, Cortes, Honduras
 HS0/DL1ZAV Rudolf Kruggel, 51 Passee Apt 408, Soiekamai 30 Klongtan, Prakanong Bangkok 10110
 HS0/OE2ASL Anton Schroffner, 102/1 Moo 15 Nongmuantao, Tambon Nonsong, Amphur Muang, 41330 Udonthani, Thailand
 HS0/OE2REL Rudolf Riess, 90/1 Soi Ucon, Taharn Rd., 41000 Udon, Thailand
 H13/WF9T R.B. Booner, Paseo De La Laguna 10, Costambar, Puerto Plata, R.D.
 JT/HA7VQ Pashkue Tiborne, QSL via JT Bureau
 JT/OK1XC Mikshatko Iosef, QSL via JT Bureau
 JT/RA6LEV V.V. Mordovin, QSL via JT Bureau
 JT/RB5LTK V.V. Strimovskii, QSL via JT Bureau
 JT/RB5LUK A.S. Delimarskii, QSL via JT Bureau
 JT/RB3MR V.V. Gurkin, QSL via JT Bureau
 JT/RA6LEV V.V. Mordovin, QSL via JT Bureau
 JT/UA3EC Gennadi Lysac, QSL via JT Bureau
 JT/UL7QCI A.B. Ovechkin, QSL via JT Bureau
 JT1/KB9IBZ David Miller, QSL via N9JXU
 JW/LB6DC Kristoffer H. Kvello, Vei 214 S, N-9170 Longyearbyen, Svalbard Island, Norway
 JW/LB6EC Thor Ore Bendiksen, Box 516, N-9170 Longyearbyen, Svalbard Island, Norway
 JW/LB6FC Trond Sigernes, Vei 230 31, N-9170 Longyearbyen, Svalbard Island, Norway
 J6/OE2CHN Christian Hohenwallner, QSL via OE2GEN
 KA1HL/VE3 Arnold M. Fine, 919 Kirkwood Ave, Ottawa, Ontario, Canada K1Z 5Y6
 OE/SP5IXI Mirosław Rozbicki, QSL via VK3DXI
 OH/G4JVG QSL via G Bureau
 OH/K5HGX John M. Knight, P.O. Box 525, Florissant, CO 80816-0525
 PA/D4FNP Ursula Roesler, Het Wedde 8, NL-2253 RE, Voorschoten, Netherlands
 PA/DL8RH Hans Werner Roesler, Het Wedde 8, NL-2253 RE Voorschoten, Netherlands
 PA/11RYS Rossella Spadini-Strom, Box 597, NL-2030 Hoofddorp, Netherlands
 PA/KB1A J. Brad Lentz, Garstkampsestr. 11, NL-6611 KS Overasselt, Netherlands
 PA/SM6CPI Kjell W. Strom, Box 597, NL-2030 Hoofddorp, Netherlands
 PJ/KB4RPC Leonel E. Lamony, 81 L.B. Scott Road, Sint Maarten, Netherlands Antilles
 PJ/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 PY/WA3MJR F.E. Vidal, Ave. Santa Marina 1588, Agua Branca, 05036 Sao Paulo, SP, Brazil
 PZ/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 P4/N4XCF Danny Swafford, Box 2209, San Nicolaas, Aruba
 SM/VK5CQ C.M. Waite, QSL via WA3JWF
 SM/9M2CR Colin Richards, Sandvik 29, 640 20 Björkvik, Sweden
 SV/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 SV/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 S7/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 S7/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 S8/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 S8/W6QL YASME, Box 2025, Castro Valley, CA 94546, USA
 TA/WB8ANI Stephen L. Webb, Box 2283, APO New York 09224, USA
 TG/KD5HA Judith A. Harper, Salon del Reino, Panajachel, Solola, Guatemala
 TI/HI8AJD Andres J. Dujarric, Box 130, Centro Colon, San Jose, Costa Rica
 TI/HI8MWD Myriam Dujarric, Box 130, Centro Colon, San Jose, Costa Rica
 TI/LU1JMQ Maria E. Alvarez, Box 79-2030, San Jose, Costa Rica
 TI/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 VE2/CE2JG Pedro Fernandez, Box 252, Laval, Quebec, Canada H7M 3N9
 VE3/JA3PJM Ryo Onishi, 15 Mullet Road, Willowdale, Ontario M2M 2A7, Canada
 VE3/OK3CAW Marvin Hivavac, 147 Mavety St, Toronto, Ontario, Canada M6P 2L8
 VP2E/W6KG YASME, Box 2025, Castro Valley, CA 94546, USA
 VP2E/AA1M Robert Reiser, QSL via AA1M
 VP2E/JH4IFF Mitsumasa "Mitsu" Uto, QSL via JH4IFF
 VP2E/KA3DBN John Rouse, QSL via KA3DBN
 VP2E/KB2JXG Catherine Burke, QSL via KB2JXG
 VP2E/KB4VHW Robert C. Ave, QSL via KB4VHW
 VP2E/KB8WC John Bricker, QSL via KB8WC
 VP2E/KD6WW Bruce D. Lee, QSD via KD6WW
 VP2E/KO80 Scott Farnham, QSL via KO80
 VP2E/KT8Y Thomas Auth, QSL via KT8Y
 VP2E/K8BL Robert Liddy, QSL via K8BL
 VP2E/NOLMD John O. Stewart, QSL via NOLMD
 VP2E/NR1R Reynolds A. Sylvester, Jr., QSL via NR1R
 VP2E/N2FBB Robert Reiman, QSL via N2FBB
 VP2E/N4BWS Terrell Moore, QSL via N4BWS
 VP2E/W2ORA Joseph D. Duffin, QSL via W2ORA
 VP2E/W2PAU Edwin M. Brown, QSL via W2PAU

Foreign

V2/KA2DIV
V2/OE2CHN
W2CIH/VE3
YS/WD4IFN
YV/H8CVR
YV/K3UOC
YV/KD4AH
YV/K4MUP
YV/OA4AUN

YV/W8PLV
ZB2/G4HUA
ZP/W6QL
ZP9/DL3RO
ZS/W6KG
ZS3/W6QL
Z2/W6QL
4F/KE6PU
4S/JA8DOK
S7/DF5UG
4S/DJ8CV
4S/DK1ZN
4S/DK2SC

4S/WB7VR
4X/W6KG
5A/G3JKI
5N/DC6GW
5N/DJ9FH
5N/DK3LQ
5N/DL5BKB
5N/DL5NE
5N/E16FM

5N/EL2AY
5N/FC1LIA
5N/FE6HCL
5N/G3GJQ
5N/G3SXX
5N/G3ZMP
5N/G4WOB
5N/G8WTR
5N/HB9CUZ
5N/HB9KC
5N/11CSJ
5N/IK1FOS
5N/IK7EJX

5N/JG1FVZ
5N/K0LXA
5N/K0AKIA
5N/KB7ZT
5N/KC7RD
5N/LU9EAG
5N/N4NW
5N/OE1YDA
5N/OE5SYM
5N/OE5WRL
5N/OK1AEX
5N/OK1DJO
5N/OK1ZKA
5N/ON7VD
5N/PB0ACP
5N/TU2HS
5N/TU2NL
5N/TZ6WG
5N/VY1AA
5N/W4LZZ
5N/W0PBV
5N/YU3IK
5N/YU7SC
5N/4X4FF
5N/5B4MV
5N/9G1JH
5N9/LU9EAG
6Y/KB4ZBK
6Y/KC4ADR
6Y/W3FAJ
6Y/OE2CHN
8R/HI8XAD
8R/LU9CAM
8R/W1CDC
8R/N3B8T
8R/WA4YYG

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Leone Alberto, MV Ollobiri, Gulf Agency & Shipping
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E. W. Keither, PMB 77, Effurun, Warri, Bendel, Nigeria
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Zdena Albrechi, Box 1009, Lagos, Nigeria
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Foreign

8R1/DL9MEU

8R1/G4AAL
8R1/KA8AXQ
8R1/KB2LVN
8R1/PE1MIY
8R1/PE1NEF
8R1/PE1QJM
9M2/KA1BWF
9N/W6KG
9N/W6QL
9Y/J6LAD
9Y/OE2CHN
9Y4/JA2EZD
9Y4/KN4TX

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Mr. Paul Downey, 73 Section M Campbellville, Georgetown, Guyana
Ms. Catherine Taylor, Hauraruni Village, Linden Highway, Guyana
Mr. Willem F. Oerlemans, 24 North Road, Bourda, Georgetown, Guyana
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Hiroo Yonezuka, QSL via JA2MNB
Tony Smithson, POB 4055, Mayaro, Trinidad and Tobago, West Indies

United States

W1/G4DZC
W1/LU9DDN
W1/PU1AIL
W1/PU1AKP
W1/PU1AKQ
W1/VK2JBM
W2/CE3CRA
W2/F2YS
W2/HI3JTE
W2/HI3VAR
W2/HI8CAO
W2/HK1AHR
W2/JS1DLCL
W2/VK2DXI
W2/YU2WX
W2/X6MQ
W3/H4ACP
W3/SM6NCT
W4/DJ3YT
W4/DJ8XU
W4/EA4DDJ
W4/HK1RFA
W4/HK3GZB
W4/HK3HJC
W4/LU4DUZ
W4/OZ7SM
W4/TF3KX
W4/YJ1UCR
W4/6Y5AM
W4/PY2ZEA
W4/Y51AF
W4/4X1AD
W5/DL2HI
W5/DL3JHT
KG6/OE6BVG
KH6/OE2CHN
KH6/VK2DXI
W6/CX7CB
W6/G3MHV
W6/G3MBZ
W6/JA1WZV
W6/LU4DMI
W6/LU6AND
W6/LU8EDU
W6/OE2CHN
W6/OE6BVG
W6/TG9EM
W6/TG9JH
W6/VK2KS
W6/X6MQ
W7/DL1UF
KH8/OE2CHN
W8/JR1COO
KH0/JG1RVN
KH0/OE6BVG
VE2AQ5/W6
VE2IQB/W4
VE3BMV/W2
VE3EKH/W5
VE3SUN/W6
VE7GDM/W0

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Walter Brenner, QSL via DJ0FX
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THIRD-PARTY TRAFFIC

The U.S. Federal Communications Commission defines third-party traffic [Part 97.3 (a)(38)] as: "A message from the control operator (first party) of an amateur station to another amateur station control operator (second party) on behalf of another person (third party)." U.S. amateurs are only permitted to handle such traffic with countries having third-party agreements with the United States.

The following is a current list of these countries:

V2	Antigua & Barbuda	YS	El Salvador	XE	Mexico
LU	Argentina	V6	Federated States of Micronesia	YN	Nicaragua
VK	Australia			HP	Panama
V3	Belize	9G	Ghana	ZP	Paraguay
CP	Bolivia	J3	Grenada	OA	Peru
PP-PY	Brazil	TG	Guatemala	DU	Philippines
VE	Canada	8R	Guyana	V4	St. Kitts-Nevis
CE	Chile	HH	Haiti	J6	St. Lucia
HK	Colombia	HR	Honduras	J8	St. Vincent
D6	Comoros	4X,4Z	Israel	9L	Sierra Leone
TI	Costa Rica	4U1ITU	ITU, Geneva	3D6	Swaziland
CM,CO	Cuba	4U1VIC	ITU, Vienna	C5	The Gambia
J7	Dominica	6Y	Jamaica	9Y	Trinidad & Tobago
HI	Dominican Republic	JY	Jordan	CX	Uruguay
HC	Ecuador	EL	Liberia	YV	Venezuela

RECIPROCAL OPERATING AGREEMENTS

The United States has negotiated reciprocal operating agreements with many other countries. Amateurs may operate within the territory of these countries according to the terms of the agreement after first obtaining a permit from the host country. The sole exception is Canada: amateurs with valid U.S. or Canadian licenses may operate within the other country's territory without obtaining a permit. They must, of course, abide by all the terms of the reciprocal operating agreement.

The following is a current list of countries having reciprocal operating agreements with the United States:

V2	Antigua & Barbuda	DA-DR	Germany	YN	Nicaragua
LU	Argentina	SV	Greece	LA	Norway
VK	Australia	J3	Grenada	HP	Panama
OE	Austria	TG	Guatemala	P2	Papua New Guinea
C6	Bahamas	8R	Guyana	ZP	Paraguay
8P	Barbados	HH	Haiti	OA	Peru
ON	Belgium	HR	Honduras	DU	Philippines
V3	Belize	VS6	Hong Kong	CT	Portugal
CP	Bolivia	TF	Iceland	J6	St. Lucia
A2	Botswana	VU	India	J8	St. Vincent/Grenadines
PY	Brazil	YB-YH	Indonesia	S7	Seychelles
VE	Canada	EI	Ireland	9L	Sierra Leone
CE	Chile	4X,4Z	Israel	H4	Solomon Is.
HK	Colombia	I	Italy	ZR,ZS	South Africa
TI	Costa Rica	6Y	Jamaica	EA-EH	Spain
5B	Cyprus	JA-JS	Japan	PZ	Surinam
OZ	Denmark/Greenland	JY	Jordan	SJ-SM	Sweden
J7	Dominica	T3	Kiribati	HB	Switzerland
HI	Dominican Republic	9K	Kuwait	HS	Thailand
HC	Ecuador	EL	Liberia	9Y	Trinidad & Tobago
YS	El Salvador	LX	Luxembourg	T2	Tuvalu
V6	Federated States of Micronesia	XE	Mexico	G	United Kingdom
3D2	Fiji	3A	Monaco	CX	Uruguay
OH	Finland	PA-PI	Netherlands	YV	Venezuela
F	France & Territories	PJ	Netherlands Antilles	YU	Yugoslavia
		ZL	New Zealand		

6 METER BEACONS

This list has been prepared by Harry Schools KA3B and Ray Clark K5ZMS for SMIRK, the Six Meter International Radio Klub. Please send all update information and Klub membership inquiries to K5ZMS.

I = Intermittent beacon. C = Continuous beacon.

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
35.810	VK6RO	I	Western Australia		3W, 6 el Yagi
41.750	VK6RO	I	Western Australia		8W, 6 el Yagi
45.250	Ch. 1	I	New Zealand TV video		
46.250	Ch. 0	I	Australian TV video		
48.250	Ch. E2	I	European/African TV video		
49.750	Ch. RI	I	European/Asian TV video		
50.000	CE3BXK	I	Santiago, Chile		
50.000	GB3BUX	C	Sheffield Univ., Buxton, England	IO93BF	15W, Turnstile
50.005	ZS2SIX	C	Rep. of South Africa	KF25	25W, dipole N/S
50.005	H44HIR		Honaria, Solomon Islands	QI00	
50.007.2	KØGUV	C	Park Rapids, Minnesota, USA	EN26	8W, Halo 35'
50.010	VE7SIX	C	Kaleden, BC, Canada	DN09	130W, Swiss Quad
50.010	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.013	P29BPL	C	Port Moresby, Papua New Guinea	QI30	30W, dipole
50.015	SZ2DH	I	Athens, Greece	KM18MM	10W, 5 el Yagi
50.015	PJ4B	C	Bonaire, Netherlands Antilles		
50.017	JE6ZIH	C	Miyazaki, Japan	PM51	10W, 2X/Squalo
50.018	ZS3VHF	C	Rep. of South Africa	JG87	50W, ground plane
50.020	GB3SIX	C	Anglesey, Wales	IO73TJ	25W, 3 el Yagi
50.020	CX1CCC	C	Uruguay	GF15	5W, ground plane
50.025	6Y5RC	C	Kingston, Jamaica	FK17MX	40W, 3 el Yagi
50.026.5	ZS6PW	I	Rep. of South Africa	KG44	
50.028	JA7ZMA	C	Fukushima, Japan	QM07	10W, 6 el Yagi
50.030	CTØWW	C	Joao Pesqueira, Portugal	IN61GE	40W, dipole
50.032.5	ZD8VHF	C	Ascension Island	II22	50W, JVL vertical
50.033	LU8YYO	C	Argentina		
50.035	ZB2VFH	C	Gibraltar		
50.035	ZS3VHF	C	Rep. of South Africa		60W, vertical
50.039	FY7THF	C	Kourou, French Guyana	GJ35	100W, ground plane
50.040	CX8BE	I	Montevideo, Uruguay	GF15	10W, 4 el Yagi
50.040	SV1SIX		Greece		
50.045	YV5/DL3ZM	C	Caracas, Venezuela	FK60	10W, 6 el Yagi
50.045	OX3VHF	C	Simiutag, Greenland	GP60QQ	20W, ground plane
50.050	GB3NHQ	C	Potters Bar, England	IO91VQ	15W, dipoles
50.050	ZS6DN	C	Irene, Rep. of South Africa	KG44	
50.055	ZS6LN	I	Rep. of South Africa	KG46	
52.056	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
50.057.5	TF3SIX	C	Iceland	HP94CC	50W, vertical
50.060	GB3RMK	C	Rosemarkie, Scotland	IO77UO	20W, dipole
50.060	K4TQR	C	Birmingham, Alabama, USA	EM63OM	1W, dipole 60'
50.060	WA8ONQ	C	Middletown, Ohio, USA	EM79TM	2W, Turnstile 50'
50.060	W5VAS	C	Slidell, Louisiana, USA	EM50	0.5W, vertical 310
50.060.2	PY2AA	C	Sao Paulo, Brazil	GG66QK	25W, ground plane
50.061	K1NFE	C	Burlington, Connecticut, USA	FN31MS	15W, Turnstile 70'
50.062	W3VD	C	Laurel, Maryland, USA	FM19NC	10W, vertical 40'
50.062.5	GB3NGI	C	Londonderry, No. Ireland	IO65	18W, dipole
50.063	N4PZ	C	Sarasota, Florida, USA	EL87SF	0.4W, whip 70'
50.063	K6MYC	I	Kona, Hawaii, USA	BK29	10W, M sq. Yagi
50.064	WD7Z	C	Yucca, Arizona, USA	DM24MV	75W, Squalo 60'
50.065	WA10JB	C	Bowdoin, Maine, USA	FN54	13W, J-pole 15'
50.065	NB30/1	C	Rhode Island, USA	FN41	100W, 5 el Yagi
50.065	W9KFO	C	Eaton, Indiana, USA	EN70HH	1.5W
50.065	KAØCDN	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	WØIJR	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	KL7WE	I	Anchorage, Alaska, USA	BP51	1.5W, 3 el Yagi
50.065.5	GB3IOJ	C	Jersey, Channel Islands	IN89	10W, Halo
50.066	VK6RPR	C	Perth, Australia	OF78	20W, horizontal
50.067	WB8IGY	I	Loveland, Ohio, USA	EM79UG	2W, vertical 100'
50.067	N7DB	I	Boring, Oregon, USA	CN85TM	10W, Halo 30'
50.067		C	Brazzaville, Congo AM Station		
50.068	W7US	C	Tucson, Arizona, USA		
50.068.5	W4RFR	C	Nashville, Tennessee, USA	EM66WA	2W
50.069	W4HHK	C	Collierville, Tennessee, USA	EM55HA	1W, dipole 30'
50.069	K6FV	C	Woodside, California, USA	CM87UL	100W, various 30'
50.070	WØBJ	C	North Platte, Nebraska, USA	DN91NC	5W, Turnstile 12'
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10W, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM63OM	4W, dipole 25'

6 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
50.059	JH0ZPI		Ueda City Nagano Japan		1W/5W/10W switch op.
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10W, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM63OM	4W, dipole 25'
50.070	K0HTF	C	Des Moines, Iowa, USA	EN31KC	3W, inverted V
50.070	N4LTA	C	Spartanburg, S. Carolina, USA	EM94AX	10W, Halo 50'
50.070	WA7ECY	C	Troutdale, Oregon, USA	CN85SM	10W, Squalo 30'
50.070	WB0CGH	C	Lewisville, Texas, USA	EM13MC	1.5W, Halo 180'
50.070	WB4GJG	I	Danville, Virginia, USA	FM06HM	1W, Ringo 70'
50.071	W0VD	C	Joplin, Missouri, USA	EM27VD	12W, dipole 20'
50.072	WA2YTM	C	Canandaigua, New York, USA	FN12IT	15W, Turnstile
50.072	KW2T	C	Palmyra, New York, USA	FN13	0.25W, Squalo 30'
50.074	WB5DSH	C	Oklahoma City, Oklahoma, USA	EM15FL	30W, Halo 40'
50.075	K7IHZ	I	Mesa, Arizona, USA	DM43BM	20W, Squalo
50.075	PY2AMI	C	Americana, Brazil	GG67IF	10W, ground plane
50.075	NL7XM/Z	C	Staten Island, New York	FNZOWN	10W, vertical
50.075	KP4EKG	I	Bayamon, Puerto Rico, USA	FK68	10W, vertical 35'
50.075	VS6SIX	C	Hong Kong	OL72	30W, ground plane
50.077	N0LL	C	Smith Center, Kansas, USA	EM09OS	21W, 2 Halos 30'
50.077	N5JM	I	New Orleans, Louisiana, USA	EL49XW	3W, vertical 50'
50.077.5	TI2NA	C	San Jose, Costa Rica	EK70	20W, dipole
50.079	W6SKC/7	C	Nogales, Arizona, USA	DM41ML	5-80W, horizontal 15'
50.080	KH6JJK	I	Honolulu, Hawaii, USA	BL11CI	5W, 3 el Yagi
50.080	WB400J	C	Tampa, Florida, USA	EL87SU	10W, vertical 25'
50.080	W1AW	I	ARRL, Newington, CT, USA	FN31PQ	50W, 6 el Yagi 60'
50.082	HC8SIX	C	Galapagos Islands	EI59	4W, vertical
50.085	9H1SIX	C	Malta	JM75FV	25W, 5 el Yagi
50.086	LU1MA	C	Mendoza, Argentina	FF57	10W, 2 el Quad
50.086	K7NV	I	Pahrump, Nevada, USA	DM16	
50.086	VE2STL	C	Val Belair, Quebec, Canada	FN46	1.5W, dipole
50.086	VP2MO	I	Plymouth, Montserrat	FK86	10W, 6 el Yagi 50'
50.090	KJ6BZ	C	Joneston Island	AK56	10W, 6 el Yagi
50.092	W5GTP	I	New Iberia, Louisiana	EM40CA	30W, 3 el Yagi 30'
50.100	HC2FG	C	Guayaquil, Ecuador	FI07	8W, J-pole
50.100	VP5D	C	Turks & Caicos Islands	FL31	6W, AR6 Ringo 60'
50.100	KG6DX	I	Latte Heights, Guam	QK23	40W, 3 el Yagi
50.110	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.110	A61XL	I	United Arab Emirates	LL74	50W, 6 el Yagi
50.120	4S7EA	I	Sri Lanka	MJ97	50W, 6 el Yagi
50.321	ZS5SIX	C	Pietermaritzburg, RSA	KG50	10W, Halo
50.490	JG1ZGW	C	Tokyo, Japan	PM95	10W, dipole
50.500	5B4CY	C	Zyghi, Cyprus	KM64HT	15W, ground plane
50.740	Ch.1 Audio	I	Auckland, New Zealand	WBFM	
50.750	Ch.1 Audio	I	Kaukapunake, New Zealand	WBFM	
50.760	Ch.1 Audio	I	Waukapunake, New Zealand	WBFM	
50.904	ZS1STB	C	Republic of South Africa	KF05	25W, ground plane
51.020	ZL1UHF	C	Auckland, New Zealand	RF73	25W, dipole
51.030	ZL2MHB	C	Napier, New Zealand	RF80	10W, vertical
51.225	ZL2VHTC		Inglewood, New Zealand	RF70	30W
51.670	Ch.0 Audio	I	Brisbane, Qld, Australia		FM
51.740	Ch.0 Audio	I	Wagga, NSW, Australia		FM
51.760	Ch.0 Audio	I	Melbourne, Vic, Australia		FM
51.910	Ch.0 Audio	I	Brisbane, Qld, Australia		
52.100	ZK2SIX	C	Niue	AH50	
52.200	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
52.250	ZL2VHM	C	Manawatu, New Zealand	RE79	8W
52.310	ZL3MHF	C	Christchurch, New Zealand	RE66	50W, vertical
52.320	VK6RTT	C	Wickham, Australia	OG89	25W, J-pole
52.325	VK2RHV	C	Newcastle, Australia	QF57	20W, horizontal
52.330	VK3RGG	C	Geelong, Australia	QF21	10W, horizontal
52.345	VK4ABP	C	Longreach, Australia	QG26	10W, vertical
52.370	VK7RST	C	Hobart, Australia	QE37	20W, horizontal
52.420	VK2RSY	C	Sydney, Australia	QF56	25W, Turnstile
52.425	VK2RGB	C	Gunnedah, Australia	QF59	5W, horizontal
52.440	VK4RTL	C	Townsville, Australia	QH30	10W, 1/4 vertical
52.450	VK5VF	C	Adelaide, Australia	PF95	30W, Turnstile
52.460	VK6RPH	C	Perth, Australia	OF78	20W, horizontal
52.465	VK6RTW	C	Albany, Australia	OF84	10W, horizontal
52.470	VK7RNT	C	Launceston, Australia	QE38	10W, horizontal
52.485	VK8RAS	C	Alice Springs, Australia	PG66	25W, horizontal
52.490	ZL2SIX	C	Blenheim, New Zealand	RE68	10W, vertical
52.510	ZL2MHF	C	Upper Hut, New Zealand	RE78	4W, vertical

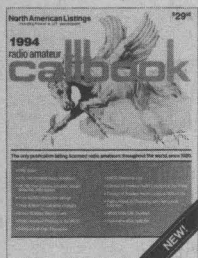
10 METER BEACONS

<u>FREQ.</u>	<u>CALL</u>	<u>OPERATION</u>	<u>LOCATION</u>	<u>NOTES</u>
28.175	VE3TEN	C	Ottawa, Ontario, Canada	10W, ground plane
28.191	VE6YF		Edmonton, AB Canada	10W
28.195	1Y4M		Bologna, Italy	20W, 5/8 ground plane
28.200	GB3SX	C	Crowborough, England, U.K.	8W, dipole
28.201	LU8ED		Buenos Aires, Argentina	5W
28.202	KE5GY	I	Arlington, Texas, USA	5W, vertical
28.2025	ZS5VHF		Natal, Rep. of South Africa	5W, ground plane
28.204	DL0IGI	C	Mt. Predigtstuhl, West Germany	100W, vertical dipole
28.205	KA3OEM		Meadville, Pennsylvania, USA	27W, Yagi west
28.206	KJ4X		Pickens, South Carolina, USA	2W, vertical
28.2075	W8FL	C	Venice, Florida, USA	10W, vertical
28.208	WA110B	C	Marlborough, Massachusetts, USA	75W, vertical
28.209	NX20		Staten Is., New York, USA	10W, ground plane
28.210	3B8MS	C	Mauritius	ground plane
28.210	K4KMZ	I	Elizabethtown, Kentucky, USA	20W, vertical
28.210	KC4DPC	C	Wilmington, North Carolina, USA	4W, dipole
28.212	EA6RCM		Palma de Mallorca, Spain	4W, 5 el NNE
28.2125	ZD9GI	C	Gough Is., South Atlantic	ground plane
28.216	GB3RAL	C	Slough, Berkshire, U.K.	20W, ground plane
28.2175	W8UR		Mackinac Is., Michigan, USA	1/2 W, ground plane
28.2175	WB9VMY	C	Calumet, Oklahoma, USA	2W, dipole
28.2195	LU4XS		Tierra del Fuego, Argentina	
28.220	5B4CY	C	Zygi, Cyprus	26W, ground plane
28.221	PY2GOB		Sao Paulo, Brazil	15W, vertical
28.222	W9UXO	C	Lake Bluff, Illinois, USA	10W, ground plane
28.2225	HG2BHA	C	Tapolca, Hungary	10W, ground plane
28.225	PY2AMI	C	Sao Paulo, Brazil	5W, dipole
28.225	N6TWX	I	Grass Valley, California, USA	30W, 3 el Yagi
28.225	KW7Y		Marysville, Washington, USA	4W, vertical
28.2275	EA6AU	C	Mallorca, Balearic Is., Spain	10W, 5/8 ground plane
28.230	ZL2MHF	C	Mt. Climie, New Zealand	50W, vertical dipole
28.232	W7JPI	C	Sonoita, Arizona, USA	5W, 3 el Yagi NE
28.233	KD4EC	C	Jupiter, Florida, USA	7W, ground plane
28.235	VP9BA	C	Hamilton, Bermuda	10W, ground plane
28.2375	LA5TEN	C	Oslo, Norway	10W, 5/8 ground plane
28.2405	5Z4ERR	C	Kiambu, Kenya	
28.245	A92C		Bahrain	dipole, NW/SE
28.2455	ZS1CTB	C	Capetown, Rep. of South Africa	20W, 1/4 vertical
28.2475	EA2HB	I	San Sebastian, Spain	6W, ground plane
28.248	K1BZ	C	Belfast, Maine, USA	5W, vertical dipole
28.2495	EA3JA		Barcelona, Spain	
28.250	W3SV	C	Elverson, Pennsylvania, USA	10W, vertical
28.250	K0HTF	C	Des Moines, Iowa, USA	2W, ground plane
28.250	Z21ANB	C	Bulawayo, Zimbabwe	15W, ground plane
28.2505	4N3ZHK		Yugoslavia	1W, vertical
28.252	WB4JHS	I	Florissant, Missouri, USA	7W, vertical
28.252	WJ7X	C	Bellevue, Washington, USA	5W, vertical
28.2525	OH2TEN		Finland	
28.255	LU1UG		Gral Pico, Argentina	5W, ground plane
28.2575	DK0TEN	C	Konstanz, West Germany	40W, ground plane
28.259	WB9FVR	C	Pembroke Pines, Florida, USA	1W, dipole
28.260	VK5WI	C	Adelaide, SA, Australia	10W, ground plane
28.262	VK2RSY	C	Sydney, NSW, Australia	25W, ground plane
28.264	VK6RWA	C	Perth, WA, Australia	
28.266	VK6RTW	C	Albany, WA, Australia	
28.266	KB4UPI	C	Birmingham, Alabama, USA	20W, 1/4 vertical
28.2685	W9KFO	I	Eaton, Indiana, USA	0.75W, vertical
28.270	ZS6PW	C	Pretoria, Rep. of South Africa	10W, 3 el Yagi
28.270	VK4RTL	C	Townsville, QLD, Australia	
28.2725	9L1FTN	I	Freetown, Sierra Leone	10W, vertical dipole
28.2745	ZS1LA	C	Stillbay, Rep. of South Africa	20W, 3 el Yagi NW
28.275	AL7GQ	C	Denver, Colorado, USA	1W, loop

10 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	NOTES
28.2755	N6RDX	I	Stockton, California, USA	20W, 3 el Yagi
28.277	DF0AAB	C	Kiel, West Germany	10W, ground plane
28.280	LU8EB		Buenos Aires, Argentina	5W
28.282	VEIMUF	C	Fredrickton, NB, Canada	0.5W, dipole
28.282	VE2HOT		Beaconsfield, PQ, Canada	5W, vertical dipole
28.284	VP8ADE	C	Adelaide Is., Antarctica	8W, vert. beam to G-land
28.286	KE2DI		Rochester, New York, USA	2W, vertical dipole
28.286	KK4M	C	Las Vegas, Nevada, USA	5W, vertical
28.287	W80MV		Asheville, North Carolina, USA	5W, ground plane
28.287	H44SI	C	Honaria, Solomon Is.	15W
28.288	W2NZH	I	Moorestown, New Jersey, USA	3W, ground plane
28.290	SK5TEN		Sweden	
28.290	VS6TEN	C	Mt. Matilda, Hong Kong	10W, vertical
28.292	ZD8HF		Ascension Island	
28.2925	LU2FFV		San Jorge, Argentina	5W, ground plane
28.295	WC8E	I	Cincinnati, Ohio, USA	10W, vertical
28.296	W3VD	C	Laurel, Maryland, USA	1.5W, vertical dipole
28.297	WA4DJS	I	Ft. Lauderdale, Florida, USA	30W, ground plane
28.301	KF4MS	C	St. Petersburg, Florida, USA	5W
28.3025	PT7AAC		Fortaleza, Brazil	5W, ground plane
28.306	PT8AA		Rio Branco, Brazil	5W, ground plane
28.315	ZS6DN	C	Irene, Rep. of South Africa	100W, vertical
28.888	W6IRT		N. Hollywood, California, USA	5W, ground plane
28.992	DL0ANN		Nuremberg, West Germany	20MW, delta loop

Send any additions, corrections, or deletions to Joe Gumino - K2OLG, 303 Old Stage Road, Spotswood, NJ 08884, USA.



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The North American Callbook lists the calls, names, and address information for over 500,000 licensed amateurs in all countries of North America from Panama through Canada, including Greenland, Bermuda, and the Caribbean islands, plus Hawaii and the U.S. possessions. Published December 1, 1993.

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DRZI 1992

TELEGRAPH CODES

29A

Continental Code	Morse Code
Used in ham radio	Used on land lines in United States and Canada
<p>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</p> <p>There are no space letters in the Continental Code</p>	<p>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z &</p> <p>C, O, R, Y, Z, and & are composed of dots and spaces T is a short dash L is a longer dash Zero (0) is usually abbreviated to T</p>
<p>Figures</p> <p>1 2 3 4 5 6 7 8 9 0</p>	<p>Figures</p> <p>1 2 3 4 5 6 7 8 9 0</p>
<p>Punctuation</p> <p>(.) (,) (?), (:), (-), (!), ("), (') (")</p> <p>None at present</p>	<p>Punctuation</p> <p>(.) (,) (?), (:), (-), (!), ("), (') (")</p>

Emergency Signal

In a dire emergency situation
use **SOS** by code, **MAYDAY** by voice.

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Prefix 0-823

08731X No Code Novice \$49.95
Includes 1 textbook, 2 novice theory tapes, 2 technical tapes, the latest FCC rule book and VHF/ UHF/HF band limits charts.

087328 21-Day Novice \$39.95
Includes 1 textbook, 2 stereo code learning tapes, sample 5 wpm Novice code test, and over \$50 in radio manufacturers' discount coupons.

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Includes 6 cassette tapes that make it easy to learn the code from scratch.

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Includes 6 code tapes, 4 theory tapes, and 2 textbooks. Ideal for upgrade from Novice to General.

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A fully illustrated textbook is included with 2 cassette theory tapes to cover FCC element 3B.

087379 Adv. Theory \$44.95
Includes 4 tapes and 1 illustrated textbook.

087409 Complete Extra \$69.95
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087387 Extra Theory \$44.95
Includes 4 theory tapes and 1 illustrated textbook for Extra class theory.

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	United States and Possessions	Canada	Mexico	All Other Countries
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Surface Postcard (QSL) (1 Ounce)				\$0.35
First Class Air Letter (1 Ounce)	\$0.29	\$0.40	\$0.45	\$0.95
Additional Ounces	\$0.23	\$0.23**	\$0.23***	
Surface Letter (1 Ounce)				\$0.70*
Aerogramme				\$0.45

* Over 1 up to 2 oz. \$0.95; over 2 up to 3 oz. \$1.20; over 3 up to 4 oz. \$1.45

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Aland Is. (Fin.).....2	Egypt.....5	Libya.....2	St. Thomas & Principe.....3
Albania.....4	El Salvador.....3	Liechtenstein.....2	St. Vincent.....3
Algeria.....2	Equatorial Guinea.....2	Luxembourg.....2	Samoa, Western.....4
Andorra.....2	Ethiopia.....3		San Marino.....3
Angola.....3		Macao.....3	Saudi Arabia.....3
Anguilla.....3	Faroe Is. (Den.).....2	Madeira Is. (Port.).....2	Scotland (U.K.).....2
Antigua.....2	Falkland Is. (Br.).....3	Madagascar.....3	Senegal.....2
Argentina.....3	Fiji Is.....4	Malawi.....6	Seychelles.....3
Ascension Is.....3	Finland.....2	Malaysia, West.....5	Sierra Leone.....3
Australia.....4	France.....2	Mali.....2	Singapore.....5
Austria.....2	French Guiana.....2	Malta.....2	Solomon Is.....2
Azores Is. (Port.).....2	French Polynesia.....2	Martinique (Fr.).....2	South Africa, Rep. of.....5
		Mauritania.....2	South Yemen.....5
Bahama Is.....2	Gabon.....2	Mauritius Is.....3	Spain.....2
Bahrain.....5	Gambia, The.....4	Mexico.....2	Sri Lanka.....5
Balearic Is. (Spain).....2	Germany.....2	Montserrat.....3	Sudan.....3
Bangladesh.....2	Ghana.....3	Morocco.....2	Surinam.....2
Barbados Is.....3	Gibraltar (Br.).....2	Mozambique.....3	Swaziland.....5
Belgium.....2	Great Britain.....2	Myanmar.....4	Sweden.....2
Belize.....2	Greece.....2		Switzerland.....2
Benin.....2	Greenland (Den.).....2	Namibia.....5	Syria.....3
Bermuda Is.....2	Grenada.....4	Nauru.....2	
Bolivia.....2	Guadeloupe.....2	Nepal.....5	Taiwan.....3
Botswana.....5	Guatemala.....2	Netherlands.....2	Tanzania.....4
Brazil.....2	Guinea-Bissau.....2	Netherlands Antilles.....2	Thailand.....3
Brunei.....4	Guinea.....2	New Caledonia.....2	Togo.....2
Bulgaria.....3	Guyana.....4	New Zealand.....3	Tonga Is.....3
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Canada.....2		Oman.....4	Tuvalu.....5
Canary Is. (Spain).....2	Iceland.....2		
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Cayman Is.....3	Indonesia.....3	Panama.....2	United Arab Emirates.....4
Central African Republic.....2	Iran.....4	Papua New Guinea.....3	Uruguay.....2
Ceuta & Melilla (Spain).....2	Iraq.....3	Paraguay.....3	
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Comoros.....3	Ivory Coast.....2	Portugal.....2	Vietnam.....2
Congo.....2			Virgin Is. (Br.).....2
Costa Rica.....2	Japan.....2	Qatar.....4	
Crete (Greece).....2	Jordan.....3		Wales (U.K.).....2
Cuba.....4		Reunion Is. (Fr.).....2	West Irian (Indonesia).....3
Cyprus.....4	Kenya.....4	Romania.....3	
Czechoslovakia.....2	Kiribati.....5	Rwanda.....2	Yugoslavia.....3
	Korea.....3		
Denmark.....2	Kuwait.....4	St. Helena Is. (Br.).....3	Zaire.....2
Djibouti.....2		St. Kitts-Nevis.....3	Zambia.....2
Dominica.....2	Lebanon.....3	St. Lucia.....3	Zanzibar (Tanzania).....4
Dominican Republic.....2	Lesotho.....5		Zimbabwe.....5

STANDARD TIME THROUGHOUT THE WORLD

The standard time system is based on the theoretical division of the surface of the globe into 24 zones, each of 15° of longitude. The initial zone is the one which has as its central meridian the Greenwich Meridian and with the meridians 7° 30' E. and 7° 30' W. as its eastern and western limits. Time in this zone is called Universal Coordinated Time, or UTC. Places to the east of Greenwich are ahead of UTC, while places to the west are behind UTC. Not all countries follow the International Time Zone System, but will use the time of some principal city as a standard or will have no standard time at all.

Reference - "Standard Time Chart of the World" No. 5192, published by the U.S. Navy Hydrographic Office, Washington D.C.

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Afghanistan	+ 4 1/2	16 30
Aland Is.	+ 2	14 00
Alaska	- 9	03 00
Albania Is.	- 10	02 00
Albania	+ 1	13 00
Algeria	+ 0	12 00
Amsterdam Is.	+ 5	17 00
Andaman Is.	+ 5 1/2	17 30
Andorra	+ 1	13 00
Angola	+ 1	13 00
Anguilla	- 4	08 00
Antigua	- 4	08 00
Argentina	- 3	09 00
Aruba Is.	- 4	08 00
Ascension Is.	- 0	12 00
Auckland Is.	+ 12	24 00
Australia: Western Australia	+ 8	20 00
Northern Territory, South Australia	+ 9 1/2	21 30
New South Wales, Queensland, and Victoria	+ 10	22 00
Austria	+ 1	13 00
Azores Is.	- 1	11 00
Bahamas	- 5	07 00
Bahrain	+ 3	15 00
Baker Is. (U.S.)	- 11	01 00
Balearic Is.	+ 1	13 00
Bangladesh	+ 6	18 00
Barbados	+ 4	13 00
Belgium	+ 1	13 00
Belize	- 6	06 00
Benin	+ 1	13 00
Bermuda Is.	- 4	08 00
Bhutan	+ 6 1/2	08 00
Bolivia	- 4	08 00
Bonaire	- 4	08 00
Borneo (Indonesia)	+ 8	20 00
Bosnia & Herzegovina	+ 1	13 00
Botswana	+ 2	14 00
Brazil: East of 52° 30' W. (approx.)	- 3	08 00
Amazonas, Mato Grosso	- 4	07 00
Acre Territory	- 5	07 00
British Isles	- 0	12 00
Brunel	+ 8	20 00
Bulgaria	+ 2	14 00
Burkina - Faso	- 0	12 00
Burundi	+ 2	14 00
Calcos Is.	- 4	08 00
Cambodia	+ 7	19 00
Cameroon	+ 1	13 00
Campbell Is.	+ 12	24 00
Canada: Belle Isle, Labrador, and Newfoundland	- 3 1/2	08 30
Anticosti Is., Cape Breton Is.,		
Magdalen Is., New Brunswick,		
Nova Scotia, Prince Edward Is.,		
Quebec (E of 68° W) and Sable Is.	- 4	08 00
Melville Peninsula (east), Ontario		
(E of 90° W), Quebec (W of 68°),		
and Southampton Is.	- 5	07 00
Manitoba, Ontario (W of 90° W),		
Melville Peninsula (west), and		
N.W. Territories (east)	- 6	06 00
Alberta, Saskatchewan, and		
N.W. Territories (middle)	- 7	05 00
British Columbia and N.W.		
Territories (west)	- 8	04 00
Yukon	- 8	04 00
Arctic Is. (No definite standard time used.)		
Canary Is.	- 0	12 00
Cape Verde	- 1	11 00
Caroline Is.: Palau	+ 9	21 00
Truk	+ 10	22 00
Ponape	+ 11	23 00
Cayman Is.	- 5	07 00
Ceibes Is. (Indonesia)	+ 8	20 00
Central African Republic	+ 1	13 00
Chad	+ 1	13 00
Chagos Is.	+ 5	17 00
Chatham Is.	+ 12 3/4	04 45
Chile	- 4	08 00
China	+ 8	20 00
Christmas Is.	+ 7	19 00
C.I.S.: Karelo-Finnish, Belarus,		
Ukraine, Moldova, and		
European Russia	+ 3	15 00
Armenia and Azerbaijan	+ 4	16 00
Kazakh, Uzbek, Turkmenistan,		
and Tajikistan	+ 5	17 00
Kyrgyzstan & West		
Siberian region	+ 6	18 00
approx. 82° 30' to 97° 30' W	+ 7	19 00
Buryat, East Siberian region	+ 8	20 00
approx. 112° 30' to 127° 30' W	+ 9	21 00
Kuri Is., Sakhalin Is.	+ 10	22 00
approx. 142° 30' to 158° 30' W	+ 11	23 00
approx. 157° 30' to 182° 30' W	+ 12	24 00
approx. 172° 30' W to coast	+ 13	01 00
Clipperton Is.	- 8	06 00
Cocos Is.	+ 7	19 00
Cocos (Keeling) Is.	+ 6 1/2	18 30
Colombia	- 5	07 00
Comoros	+ 3	15 00
Congo	+ 1	13 00
Cook Is.	+ 10 1/2	01 30
Corsica	+ 1	13 00
Costa Rica	- 8	06 00
Crete	+ 2	14 00
Croatia	+ 1	13 00
Crozet Is.	- 5	07 00
Cuba	- 5	07 00
Curacao	- 4	08 00
Cyprus	+ 2	14 00
Czech Republic	+ 1	13 00
Denmark	+ 1	13 00
Diego Garcia	+ 5	17 00
Djibouti	+ 3	15 00
Dominica	- 4	08 00
Dominican Republic	- 4	08 00
Easter Is.	- 7	05 00
Ecuador	- 5	07 00

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Egypt	+ 2	14 00
El Salvador	- 6	06 00
Endorbury Is. (Kiribati)	- 11	01 00
Equatorial Guinea	+ 1	13 00
Estonia	+ 3	15 00
Ethiopia	+ 3	15 00
Falkland Is.	- 4	08 00
Fanning Is.	- 10	02 00
Faroes	- 0	12 00
Fernando de Noronha Is.	- 2	10 00
Fiji Is.	+ 12	24 00
Finland	+ 2	14 00
France	+ 1	13 00
French Guiana	- 3	09 00
French Polynesia	- 10	02 00
Gahon	+ 1	13 00
Galapagos Is.	- 5	07 00
Gambia, The	- 0	12 00
Georgia	+ 1	13 00
Germany	+ 1	13 00
Ghana	- 0	12 00
Gibraltar	+ 1	13 00
Gilbert Is. (Kiribati)	+ 12	24 00
Gough Is.	- 0	12 00
Greece	+ 2	14 00
Greenland: Scoresbysund Area	- 3	09 00
Central	- 4	08 00
Thule Area	- 4	08 00
Grenada	- 4	08 00
Guadeloupe	- 4	08 00
Guam	+ 10	22 00
Guantanamo Bay	- 5	07 00
Guatemala	- 6	06 00
Guinea	- 0	12 00
Guinea-Bissau	- 0	12 00
Guyana	- 3	09 00
Haiti	- 5	07 00
Hawaii	- 10	02 00
Heard Is.	+ 5	17 00
Honduras	- 6	06 00
Hong Kong	+ 8	20 00
Howland Is. (U.S.)	- 11	01 00
Hungary	+ 1	13 00
Iceland	- 0	12 00
India	+ 5 1/2	17 30
Iran	+ 3 1/2	15 30
Ireland	- 0	12 00
Israel	+ 2	14 00
Italy	+ 1	13 00
Ivory Coast	- 0	12 00
Jamaica	- 5	07 00
Jan Mayen Is.	- 1	11 00
Japan	- 0	21 00
Jarvis Is.	+ 10	02 00
Java (Indonesia)	+ 7	19 00
Johnston Is.	- 10	02 00
Jordan	+ 3	15 00
Juan Fernandez Is. (Chile)	- 4	08 00
Kanton Is. (Kiribati)	- 11	01 00
Kenya	+ 3	15 00
Kerguelen Is.	+ 5	17 00
Kermadec Is.	+ 9	21 00
Korea	+ 9	21 00
Kuwait	+ 3	15 00
Laccadive Is.	+ 5 1/2	17 30
Laos	+ 7	19 00
Labia	+ 3	15 00
Lebanon	+ 2	14 00
Lesotho	+ 2	14 00
Liberia	- 0	12 00
Libya	+ 2	14 00
Liechtenstein	+ 1	13 00
Line Is. (Kiribati)	- 10	02 00
Lithuania	+ 3	15 00
Lord Howe Is.	+ 10 1/2	22 30
Luxembourg	+ 1	13 00
Macao	+ 8	20 00
Madagascar	+ 11	23 00
Madagascar	+ 3	15 00
Madeira Is.	- 0	12 00
Malawi	+ 2	14 00
Malaysia	+ 7 1/2	10 30
Maldives Is.	+ 5	17 00
Malta	+ 0	12 00
Manchuria	+ 8	20 00
Manihiki Is.	- 11	01 00
Marianas Is.	- 10	22 00
Marquesas Is.	+ 12	24 00
Marshall Is.	+ 12	24 00
Martin Vaz Is.	- 2	10 00
Martique Is.	- 4	08 00
Mauritania	- 0	12 00
Mauritius Is.	+ 3	15 00
Mayotte	+ 3	15 00
Mexico: East of the States of Sonora,		
Sinaloa, and Nayarit	- 0	06 00
Sonora, Sinaloa, Nayarit, and		
Baja California (south of 28° N)	- 7	05 00
Baja California (north of 28° N)	- 8	04 00
Midway Is.	- 11	01 00
Molucca Is. (Indonesia)	+ 0	21 00
Monaco	+ 1	13 00
Mongolia	+ 8	20 00
Montserrat	- 4	08 00
Morocco	- 0	12 00
Mozambique	+ 2	14 00
Myanmar	+ 6 1/2	18 30
Namibia	+ 2	14 00
Nauru	+ 11 1/2	23 30
Navassa Is.	- 5	07 00
Nepal	+ 5 1/2	17 40
Netherlands	+ 1	13 00

The theoretical system described is applied, in a strict sense, only in oceanic regions. On land or on groups of islands the system is applied with certain local deviations made necessary by frontiers or to permit an entire island group to have the same time zone. The time used in each country, whether it is the time of the corresponding zone or a modified time, is fixed by law and is called legal time, or more generally, standard time.

Another deviation from this theoretical system is that certain countries, for economic reasons, modify their legal time for part of the year (especially in summer) by advancing it an hour or another fraction of time. Where such deviations are maintained on a year-around basis, the time kept is considered to be standard time.

Standard or local time
Hours fast or slow of UTC
Time at 12:00 hrs. UTC

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
New Caledonia	+ 11	23 00
New Zealand	+ 12	24 00
Nicaragua	- 6	06 00
Nicaragua	+ 5 1/2	17 30
Niger	+ 1	13 00
Nigeria	+ 1	13 00
Niue	+ 11 1/2	23 30
Norfolk Is.	+ 11 1/2	23 30
Norway	+ 1	13 00
Ogasawara Is.	+ 9	21 00
Oman	+ 4	16 00
Pakistan	+ 5	17 00
Palmyra Is.	- 10	02 00
Panama	- 5	07 00
Papua New Guinea	+ 10	22 00
Paraguay	- 4	08 00
Peru	- 5	07 00
Philippines	+ 8	20 00
Phoenix Is. (Kiribati)	- 11	01 00
Pitcairn Is.	- 8 1/2	03 30
Poland	+ 1	13 00
Portugal	- 0	12 00
Pribilof Is.	- 10	02 00
Prince Edward & Marion Is.	+ 3	15 00
Providence Is.	- 5	07 00
Puerto Rico	- 4	08 00
Qatar	+ 3	15 00
Reunion Is.	+ 4	16 00
Revilla Giedgo Is.	- 7	05 00
Romania	+ 2	14 00
Rwanda	+ 2	14 00
Ryukyu Is.	+ 9	21 00
Sabah (Malaysia)	+ 8	20 00
St. Helena Is.	- 0	12 00
St. Kitts, Nevis	- 4	08 00
St. Lucia	- 4	08 00
St. Paul Is.	- 5	07 00
St. Pierre & Miquelon Is.	- 3	09 00
St. Vincent	- 4	08 00
Salpan	+ 10	22 00
Samoa Is.	- 11	01 00
San Andres Is.	+ 1	13 00
San Marino	+ 1	13 00
Sao Tome & Principe Is.	- 0	12 00
Sarawak (Malaysia)	+ 8	20 00
Sardinia	+ 1	13 00
Saudi Arabia	+ 3	15 00
Senegal	+ 0	12 00
Seychelles Is.	+ 4	16 00
Sicily	+ 1	13 00
Sierra Leone	- 0	12 00
Singapore	+ 8	20 00
Sint Eustatius	- 4	08 00
Sint Maarten	- 4	08 00
Slovakia	+ 1	13 00
Slovenia	+ 1	13 00
Solomon Is.	+ 11	23 00
Somali Republic	+ 3	15 00
South Africa	+ 2	14 00
South Georgia Is., South Sandwich Is.,		
South Shetland Is., South Orkney Is.	- 2	10 00
(No definite standard time used.)		
South Yemen	+ 3	15 00
Spain	+ 1	13 00
Sri Lanka	+ 5 1/2	17 30
Sudan	+ 2	14 00
Sumatra (Indonesia)	+ 7	19 00
Surinam	- 3 1/2	08 30
Svalbard Is.	+ 1	13 00
Swan Is.	- 6	06 00
Swaziland	+ 2	14 00
Sweden	+ 1	13 00
Switzerland	+ 1	13 00
Syria	+ 2	14 00
Taiwan	+ 8	20 00
Tanzania	+ 3	15 00
Tasmania (Australia)	+ 10	22 00
Thailand	+ 7	19 00
Timor Is. (Indonesia)	+ 8	20 00
Togo	- 0	12 00
Tonga	+ 13	01 00
Transkei	+ 2	14 00
Trinidad & Tobago	- 4	08 00
Tristan da Cunha Is.	- 0	12 00
Tromelin Is.	+ 4	16 00
Tunisia	+ 1	13 00
Turkey	+ 3	15 00
Turks Is.	+ 4	08 00
Tuvalu	+ 12	24 00
Uganda	+ 3	15 00
United Arab Emirates	+ 4	16 00
United States of America: Eastern Time	- 5	07 00
Central Time	- 6	06 00
Mountain Time	- 7	05 00
Pacific Time	- 8	04 00
Uruguay	- 3	09 00
Vanuatu	+ 11	23 00
Vatican City	+ 1	13 00
Venezuela	- 4	08 00
Vietnam	+ 7	19 00
Virgin Is.	- 4	08 00
Wake Is.	+ 12	24 00
Wallis & Futuna Is.	+ 12	24 00
Western Sahara	- 0	12 00
West Irian (Indonesia)	+ 9	21 00
West Indies	- 4	08 00
Yemen	+ 3	15 00
Yugoslavia	+ 1	13 00
Zaire	+ 2	14 00
Zambia	+ 2	14 00
Zanzibar (Tanzania)	+ 3	15 00
Zimbabwe	+ 2	14 00

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